STC Technical Report 3157

# Verification and Validation of Current IWEDA Rules

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Prepared for
U.S. Army Topographic Engineering Center
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Final Report for Subtask 2
Contracting Officer's Representative: Ms. Joni Jarrett

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in Integrated Weather Effects provided by the Army Resear publications and Subject Mat	Decision Aid (IWEDA) softwa ch Laboratory at White Sands ter Experts, the STC team wa	re in development by the U. Missile Range from a previous s able to validate, adjust, or	llues and their impact rules resident S. Army. STC reviewed 493 rules as STC report. Using current Army delete each rule. The results are so been presented in soft copy.
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#### **FOREWORD**

Science and Technology Corporation (STC) is pleased to submit this final document entitled "Verification and Validation of Current IWEDA Rules" for the satisfaction of the requirements of Subtask 2 of Contract No. DACA76-93-D-0005, Delivery Order No. 0005, Statement of Work (SOW) entitled "Modernized Army Weather Support and Organization." The document was prepared by Mr. Carl H. Chesley and Mr. Vincent P. Grocki of the STC Hampton, Virginia office and is one of three documents prepared to satisfy the requirements for Subtasks 1, 2, and 3 of the contract.

- 1. The final document for subtask 1, "Management Organization for Army Weather Programs and Support Functions," is provided in STC Technical Report No. 3145.
- The final document for subtask 2, "Verification and Validation of Current IWEDA Rules," is provided in STC Technical Report No. 3157.
- The final document for subtask 3 on Templates will be provided in STC Technical Report No. 3161.

The valuable technical discussions with Ms. Joni Jarrett, U.S. Army Topographic Engineering Center, Mr. Steven Nolan, Office of the Deputy Chief of Staff, Intelligence, Futures Directorate, Analysis and Support Team, and Maj. Michael Corbett, Office In-Charge Weather Support Team U.S. Army Intelligence Center, Fort Huachuca, Arizona, are sincerely appreciated. Special thanks also goes to Mr. Lee Page, Office of the Deputy Chief of Staff, Intelligence, Policy Directorate, Battlespace Surveillance Operation Division, for his willingness to share his official library of publications and his personal memories of 13 years of Army weather support.

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#### LIST OF ACRONYMS

ACC U.S. Air Force Air Combat Command

ARL-W U.S. Army Research Laboratory, White Sands Missile Range, New Mexico

ASCII American Standard Code for Information Interchange

BFM Battlescale Forecast Model

CV Critical Value

CVDB Critical Value Data Base

DOS Disc Operating System

EDGE Environmental Design Guidance for Evaluation

EO Electro-Optical

EOTDA Electro Optical Tactical Decision Aid

ETI Environmental Thresholds and Impacts

GPS Global Positioning Satellite

HQ TRADOC Headquarters, U.S. Army Training and Doctrine Command

IMETS II Integrated Meteorological System Block II

IPB Intelligence Preparation of the Battlefield

IWEDA Integrated Weather Effects Decision Aid

MI Military Intelligence

MLRS Multiple Launch Rocket System

MOPP Mission Oriented Protection Posture

MOS Military Occupational Specialty

MTOE Modified Table of Organization and Equipment

NETT New Equipment Training Team

NGIC National Ground Intelligence Center

OIC Officer in Charge

ORACLE British Aerospace Visual Performance Model

SME Subject Matter Expert

SOW Statement of Work

SWO Staff Weather Officer

STC Science and Technology Corporation

TARGAC Target Acquisition Model

TEC

U. S. Army Topographic Engineering Center

UAV

Unmanned Aerial Vehicle

USAIC&FH

US Army Intelligence Center and Fort Huachuca

WST

Weather Support Team

#### 1. INTRODUCTION

The original statement of work (SOW), contained in Appendix A, provides the objective, background, tasks, deliverables, control procedures, and the government-furnished support. Appendix B contains the modification to the SOW that redefined the requirements for this AR 5-5 study. The modification identified two new requirements: the requirement for the validation of the Integrated Weather Effects Decision Aid (IWEDA) rule base and the development of a master list of templates to be hosted on Integrated Meteorological System Block II (IMETS II) for use by various customers. Appendix C contains the Science and Technology Corporation (STC) letter that requested a no cost extension of the completion date for the template requirement to 31 March 1997. The STC request was approved and incorporated into the amendment issued by the U.S. Army Topographic Engineering Center (TEC) on 19 September 1997.

#### 1.1 TEAM COMPOSITION

The original STC Management and Technical Team was comprised of three current STC employees and one individual to be hired. Table 1-1 contains the names and position titles of the team members.

 Labor Category
 Name
 Support to the Contract

 Program Manager
 Mr. Samuel L. Eure
 Part time

 Project Manager/Principal Investigator
 Mr. Carl H. Chesley
 Full time

 Investigator
 Dr. Andrew R. Spillane
 Part time

 Investigator
 Mr. Vincent P. Grocki
 Part time

Table 1-1. Team Composition

Shortly after the award of the original contract, Dr. Spillane resigned from STC. As a result, the hours originally programmed for him were reprogrammed to the newly hired investigator, Mr. Grocki.

#### 1.2 OVERVIEW

This document, divided into four sections, summarizes the work completed to satisfy the requirements to validate the IWEDA rules. Section 1 is the Introduction. Section 2 contains a review of the procedures followed to validate the IWEDA rule base and a discussion of the validated rules. Section 3 provides general comments about IWEDA and specific comments on the operation and capabilities of the IWEDA software. Section 4 contains the conclusions and recommendations. Additional detail is provided by the seven appendices accompanying the text.

#### 2. IWEDA VALIDATION ACTIVITY

A visit to the Weather Support Team (WST) at the US Army Intelligence Center, Fort Huachuca, Arizona (USAIC&FH), was conducted by Mr. Chesley and Mr. Grocki. Discussions with Maj. M. Corbett, Officer in Charge (OIC) of the WST, and MSgt W. Buttner and Mr. R. Szymber, members of the WST, confirmed that STC was tasked to validate only the rules already resident in IWEDA IMETS II.

The 493 rules currently in the version of IWEDA that resides on IMETS II come from two major sources. The majority are based on the 480 rules originally presented to the U.S. Army Research Laboratory, White Sands Missile Range, New Mexico (ARL-W), by the STC team of investigators as part of the IWEDA developmental work performed under contract to ARL-W. Various technical reports, listed in Appendix D, were prepared that included a description of the original IWEDA software and database. The remainder of the rules were developed by ARL-W when they modified or deleted some of the original 480 rules and added approximately 20 unclassified rules covering threat systems.

The rules obtained from ARL-W, as they are used in IWEDA IMETS II, were contained in five separate tables that provided various elements of each rule. In the original database, all elements of a rule were contained in a single record. However, a change in the system architecture of IWEDA necessitated a database format change. Because of this format change, STC had to recombine the data contained in the five tables into individual tables for the system, subsystem, and component rules. With the subject rules identified, the next step was to decide on an order of priority for validation. Since the rules are used in IWEDA without special regard for "operations" or "missions," it was decided to simply validate all 493 rules as quickly as possible.

Also during the initial visit to Fort Huachuca, the STC team was given the opportunity to work with the actual IWEDA IMETS Block II software. This brief familiarization has made rule validation more comfortable and has led to some comments and recommendations covered later in the report.

#### 2.1 VALIDATION APPROACH

The primary validation approach was to identify those Army or Air Force publications that furnished specific critical values (CV) for an item that applied to all users of the item. The proximity of STC's Corporate office in Hampton, Virginia, to the Air Combat Command (ACC) Headquarters at Langley Air Force Base, as well as Headquarters, Training and Doctrine Command (HQ TRADOC) at Fort Monroe,

and the U.S. Army Aviation and Transportation School at Fort Eustis, Virginia, facilitated much of the validation process. In addition, all three locations served as sources for subject matter experts (SME) and their personal libraries in various areas. Appendix E provides a list of the locations and personnel contacted during the validation process.

During the initial visit to the WST, the search for original source documentation for friendly and threat rules began. STC investigators reviewed a report containing a Critical Value Data Base (CVDB) prepared for USAIC by a local Arizona small business.<sup>1</sup> This database contained very little, if any, usable data and had absolutely no value to this effort. Visits were also made to local Fort Huachuca training, test and evaluation, and tactical units, and to an on-post library to gather reference data. Although a few publications were obtained, these visits met with little success except in the unmanned aerial vehicle (UAV) area.

Working with Air Force pilots assigned to the HQ ACC Conventional Operations and Training Division, the STC team was able to identify reference documents for current Air Force systems and identify those systems included in IWEDA that were no longer in the Air Force inventory (e.g., the F4-G and F-111 fighter/bombers that have been retired). Because many of the Air Force documents only had limited specific CV information, SMEs were used to augment and add specificity to the data. Majs. R. Goodwyn, C. Fisher, and M. Decesari of the Weapons and Tactics Branch provided these data. They also agreed that most weather impacts to navigation have been completely overcome by major increases in technology. The Global Positioning Satellite (GPS) system, along with an improved Inertial Navigation System, has negated most of the effects of winds, clouds, hydrometeors, and lithometeors. Additionally, the multiplicity of weapons, delivery tactics, and target acquisition methods have further reduced, if not eliminated, most of the weather impacts on the close air support role of the U.S. Air Force.

At Fort Eustis, the Aviation Applied Technology Directorate of the Aviation Support Facility, as well as the CH-47 Support Facility, provided valuable assistance to the validation of rules applicable to Army aircraft and to the identification of noncurrent Army systems (e.g., OV-1). Using the Fort Eustis Aviation and Transportation School library, the Fort Eustis Military Occupational Specialty (MOS) library, and publications from the Fort Monroe library, the STC technical team was able to validate,

COBACO, Inc., Sierra Vista, Arizona.

update, or eliminate rules dealing with wheeled vehicles, mission oriented protection posture (MOPP) operations, soldier effectiveness, and some miscellaneous radar components.

Because the local military library facilities are not all inclusive, the STC team visited Fort Bragg, North Carolina, to further the research effort. Personnel and organizations contacted are listed in Appendix E.

Dr. Richard Shirkey, ARL-W, performed the actual evaluation of the electro-optical (EO) related rules using the target acquisition model (TARGAC) code, the Air Force Electro Optical Tactical Decision Aid (EOTDA), and the British Aerospace Visual Performance Model ORACLE. His analysis of the results was responsible for the verification and validation of approximately 10% of the rules.

#### 2.2 RULE VALIDATION

The actual validation procedure was relatively straightforward. Having arranged the available database of rules as individual reports, they were then organized in categories by system, subsystem, and component. A literature search was conducted to identify documented official Army (or Air Force) statements concerning the effects of significant environmental conditions on Army/Air Force equipment and people. The team relied on DA Pamphlet 25-30, Consolidated Index of Army Publications and Blank Forms, 1 October 1997, to confirm the currency of documents and items. (If no reference document could be found in the current DA Pam 25-30 it alerted the team members to the fact that the item might no longer be in the inventory.) The search included, but was not limited to regulations, field manuals, technical manuals, technical bulletins, soldier pamphlets, technical orders (Air Force), and joint publications. Some SME interviews were conducted, but in each case the main thrust of the conversation was to identify publications where the Army/Air Force had officially identified a CV or an environmental impact on a system. Only as a last resort were SME statements used as documentation for CVs or weather effects impact statements.

All elements of each rule were reviewed and evaluated. In some cases the various elements of the CV had to be changed (e.g., weather parameter or operator), or the impact statement wording needed to be corrected. In a number of cases the "red color" condition was considered too restrictive and was downgraded to "amber." For example, a high-density altitude ostensibly made a particular helicopter platform unusable. However, if the payload, fuel load, route, or timing could be adjusted, the situation would only become amber. In other cases, operating a vehicle in extremely cold temperatures was categorized as not feasible, a red condition. But if a winterization kit was installed, the situation could be considered an amber condition. In such situations, where logical alternative actions are available to

promote mission accomplishment, the impact of the CV was changed to amber to indicate a potential problem as opposed to a mission halting red issue. Lastly, each new source was documented including the date of publication. Where an official "change" to the original publication had been produced, the date of the change was used as the date of publication.

The final element of each rule that was reviewed was the condensed impact. When IWEDA was originally designed the condensed impact was developed to give the user a quick, but accurate, indication of what was causing either a red or amber impact. The condensed impacts were designed and delivered to give the user a prioritized list of condensed impacts, with each condensed impact satisfying a specific CV or range of values. However, based on discussions with Mr. Dave Sauter, ARL-W, and on feedback he received from various field tests of IWEDA, the definitions of several condensed impacts were changed. The revised list of condensed impacts, listed in priority order of severity or importance, is included in Appendix F.

#### 2.3 COORDINATION WITH THE WEATHER SUPPORT TEAM

To avoid duplication of effort between the STC team and the WST, STC made a concerted effort to coordinate its actions with and share its work with the WST. As a consequence of the efforts to validate existing IWEDA rules two other computerized weather effects databases were identified, one of which may have some future utilization for the WST.

#### 2.3.1 Environmental Thresholds and Impacts Database

The Environmental Thresholds and Impacts (ETI) database, containing more than 4100 rules, was obtained from Dr. Paul Krause of the U.S. Army's Topographic Engineering Center (TEC). STC received the data as a series of separate American Standard Code for Information Interchange (ASCII) tables that needed to be linked together and imported into a single relational database before the data could be easily and usefully read. Also, almost no documentation was available to help understand or use these various data tables. The Microsoft Access database software was selected to host these data because of Access' widespread use in the Army. The STC team performed the necessary importing and linking of the tables and after some effort was able to decipher and arrange the data in a logical and manageable form.

Chesley, C. H., A. R. Spillane, W. G. Maunz, and T. J. Dube, 1994: Integrated Weather Effects Decision Aid (IWEDA), Version 1.10a Final Status Report. STC TR 2885, Appendix F, Science and Technology Corp., Hampton, Virginia.

The ETI database was originally developed by STC under contract to TEC in support of the development of TEC's Environmental Design Guidance for Evaluation (EDGE) program to alert materiel developers to environmental impacts when developing new items. The rule base was modified by TEC, and approximately one-half of these rules do not have specific values as CVs but use more general terms instead (e.g., slippery soil when wet, tropic environment, high humidity). A limited review and evaluation of the remaining rules found that the current ETI database does not appear to be sufficiently robust to aid the immediate effort to validate current IWEDA rules. However, the data may serve as a basis for CVs and/or rules included in the large Army-wide database being developed by the WST. Therefore, the entire ETI database was forwarded to USAIC&FH WST. Once the Army-wide expanded database is complete, individual Army centers and schools will review and validate those specific rules that deal with items for which they are responsible.

#### 2.3.2 USAIC Critical Value Database

The second database consisted of the previously mentioned CVDB maintained by the WST at USAIC&FH. The contractor purportedly delivered an automated database; however, the WST has never been able to get it to work. After reviewing some of the paper copy printouts from the CVDB it was determined that most of the CVs were missing or so vague as to be useless, and no usable impact statements were available. This database should probably be discarded.

#### 2.3.3 Draft Copy of Validated Rules

Because of the ongoing work being done by the WST to build the expanded IWEDA rule base, STC furnished the WST and the ARL-W a copy of the validated rule base after about 60 percent of the rules had been validated. This included tables of all of the rules and data collected up to that point and a report that the WST could printout to view the data in an easy-to-read format. The intent was to ensure that STC's efforts were consistent with the SOW and satisfied the customer's requirements. STC requested and received a series of comments, mostly by e-mail, concerning changes, corrections, additions, and concurrences on the database from both organizations.

#### 2.4 RESULTS

Of the 493 rules reviewed, 259 were at the system level, 137 at the subsystem level, and 97 at the component level. All 493 rules were evaluated and all were changed in some manner, if only to increase the information included in the "source" field of the rule or to recommend deletion. The final validation

of 10 EO sensor rules was not completed before publication of this report. Final research results from ARL-W will be used to verify these rules. These 10 rules are identified by a "V" in the "Any Change to Record?" field in the component rule database. Each of the rules is individually presented in Appendix G as a separate record. Each record includes most of the original fields contained in the tables provided by the ARL-W and are all of the fields that the STC team was tasked to review and validate by the SOW.

#### 2.4.1 Deleted Rules

The lists of the rules recommended for deletion for Systems, Subsystems, and Components are contained in Tables 2-1, 2-2, and 2-3. A specific reason is included for each rule listed.

Table 2-1. List of System Rules Recommended for Deletion

ID No.	System Name	Rule 1	Rule 2	Reason for Delition	
25	A-10	59		Delete Rule: Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997. Replaced by Rule ID# 26	
27	A-10	63		Delete Rule: Not Applicable. Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997.	
28	A-10	67		Delete Rule: Not Applicable. Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997.	
30	A-10	101	101	Delete Rule: Not Significant. Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997.	
40	AH-1F	67		Delete Rule: Not siginifcant, replaced by rule ID# 39	
41	AH-1F	75		Delete Rule, Redundant rule, See ID# 39	
47	AH-1F	86		Delete Rule: This is too restrictive. Pilot has options. Delete as a red condition. It is included in yellow condition (> 5000 ft).	
48	AH-1S	7		Delete Rule: No longer in inventory.	
49	AH-1S	24		Delete Rule: No longer in inventory.	
50	AH-1S	32		Delete Rule: No longer in inventory.	
51	AH-1S	33		Delete Rule: No longer in inventory.	
52	AH-1S	56		Delete Rule: No longer in inventory.	
53	AH-1S	60		Delete Rule: No longer in inventory.	
54	AH-1S	61		Delete Rule: No longer in inventory.	
55	AH-1S	62		Delete Rule: No longer in inventory.	
56	AH-1S	63		Delete Rule: No longer in inventory.	
57	AH-1S	67		Delete Rule: No longer in inventory.	
58	AH-1S	75		Delete Rule: No longer in inventory.	
59	AH-1S	77		Delete Rule: No longer in inventory.	
60	AH-1S	79		Delete Rule: No longer in inventory.	
61	AH-1S	80		Delete Rule: No longer in inventory.	
62	AH-1S	85		Delete Rule: No longer in inventory.	
63	AH-1S	86		Delete Rule: No longer in inventory.	
77	AH-64	83		Delete Rule: Not significant.	
79	AH-64	86		Delete Rule: This is too restrictive. Pilot has options. Delete as a red condition. It is included in yellow condition (> 5000 ft).	
84	C-12	68		Delete Rule: No longer in TM. Included in rule ID# 83	
86	C-12	79	j	Delete Rule: Included in Rule ID# 87	

ID No.	System Name	Rule 1	Rule 2	Reason for Delition	
99	CH-47D	87		Delete Rule: This is too restrictive. Pilot has options. Delete as a red condition. It is included in yellow condition (> $5000 \text{ ft}$ ).	
104	CHAPARREL	57		Delete Rule: FM 34-81-1, Appendix B-6, Dec 1992, refers only moderate freezing rain and a moderate degradation. Covered by ID# S103	
113	EH-60A	68		Delete Rule: Replaced by newer reference. See rule ID# 113	
119	EH-60A	86		Delect Rule: This is too restrictive as a red condition; pilot has options. This is included in > 5000 ft. as an amber condition.	
120	EH-60A	87		Delete Rule: Too restrictive, pilot has options. Warning included in rule ID# 121	
123	F-111G	32		Delete Rule: No longer in inventory	
124	F-111G	56		Delete Rule: No longer in inventory	
125	F-15E	52		Delete Rule: Not significant. Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
127	F-15E	63		Delete Rule: Not significant. Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
128	F-15E	71		Delete Rule: Not significant. Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
129	F-15E	98	98	Delete Rule: Not significant. Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
138	F-16	63		Delete Rule: Not significant. Interview with MAJ Fisher, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
139	F-16	67		Delete Rule: Not significant. Interview with MAJ Fisher, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997	
142	F-4G	32		Delete Rule: No longer in inventory	
143	F-4G	56		Delete Rule: No longer in inventory	
148	M109 SP HOWITZER	21		Delete Rule: TM 9-1025-211-10, Jan 1991, Operator's Manual for 155mm Howitzer (M109) says nothing about artillery tube temperature. Para 2-31 says to "oil frequently in hot climates".	
153	MLQ-34	25		Delete Rule: Absolutely no reference in FM 34-81-1, Dec 1992. No other sources found.	
154	MLQ-34	26		Delete Rule: Absolutely no reference in FM 34-81-1, Dec 1992. No other sources found.	
155	OH-58C	24		Delete Rule: Not significant. Based on comments in TM 55-1520-228-10, Para 8-36, Jun 1996	
162	OH-58C	75		Delect Rule: No longer significant	
164	OH-58C	77		Delete Rule: Not necessary. See rule ID# 163	
168	OH-58C	86		Delete Rule: This is too restrictive as a red condition, Pilot has options. It is included in > 5000 ft as an amber condition.	
169	OH-58D	24		Delete Rule: Based on comment in TM 55-1520-248-10, Para 8-36, May 1997	
172	OH-58D	68		Delete Rule: Duplicate of ID# 171	
175	OH-58D	77		Delete Rule: Not necessary. Covered in Sys ID# 174	
179	OH-58D	86		Delete Rule: This is too restrictive as a red condition, pilot has options. It is included in > 5000 ft as an amber condition.	
180	OV-1	28		Delete Rule: No longer in inventory	
181	OV-1	29		Delete Rule: No longer in inventory	
182	OV-1	32		Delete Rule: No longer in inventory	
183	OV-1	56		Delete Rule: No longer in inventory	
184	OV-1	77	<u> </u>	Delete Rule: No longer in inventory	
185	OV-1	78		Delete Rule: No longer in inventory	
186	OV-1	79		Delete Rule: No longer in inventory	
187	OV-1	80		Delete Rule: No longer in inventory	
192	PPS-5B	64		Delete Rule: TM11-5840-298-12, Jun 1967, Operator's Manual makes no mention of this wind impact in unusual conditions.	

ID No.	System Name	Rule 1	Rule 2	Reason for Delition	
193	PPS-5B	65		Delete Rule: TM11-5840-298-12, Jun 1967, Operator's Manual makes no mention of this wind impact in unusual conditions.	
199	RC-12	68		Delete Rule: No mention in TM 55-1510-218-10, Feb 1994	
201	RC-12	79		Delete Rule: Not significant. See Rule ID# 202	
205	TPQ-36	70		Delete Rule: Covered by ID# 204	
210	TPQ-37	141	141	Delete Rule: TM11-5840-355-10-1, Jul 1981, Operator's Manual makes no mention of this impact in unusual conditions	
211	TPQ-37	142	142	Delete Rule: TM11-5840-355-10-1, Jul 1981, Operator's Manual makes no mention of this impact in unusual conditions	
212	TRQ-32V	21		Delete Rule: No reference or record of system in DA PAM 25-30 ,Army Index of Publications and Forms, 1 Oct 1997	
213	TRQ-32V	24		Delete Rule: No reference or record of system in DA PAM 25-30, Army Index of Publications and Forms, 1 Oct 1997	
214	TRQ-32V	90		Delete Rule: No reference or record of system in DA PAM 25-30, Army Inde of Publications and Forms, 1 Oct 1997	
218	TSQ-138	26		Delete Rule: Conbined in Rule ID# 217	
222	UAV	35		Delete Rule: Old rule for pointer UAV	
223	UAV	52		Delete Rule: Delete and replace with link to component rules for TV/Direct view sight and thermal sight since there are subsystems on UAV.	
224	UAV	53		Delete Rule: Delete and replace with link to component rules for TV/Direct view sight and thermal sight since there are subsystems on UAV.	
226	UAV	59		Delete Rule: Delete and replace with link to component rules for TV/Direct view sight and thermal sight since there are subsystems on UAV.	
227	UAV	60		Delete Rule: Delete and replace with link to component rules for TV/Direct view sight and thermal sight since there are subsystems on UAV.	
228	UAV	64		Delete Rule: Redundant. See rule ID# 231	
230	UAV	67		Delete Rule: This applies to "Printer" UVA not "Hunter"	
235	UAV	93	93	Delete Rule: Replace by rule ID# 234	
240	UH-1	67		Delete Rule: redundant with rule ID# 239	
247	UH-1	86		Delete Rule: This is too restrictive as a red condition, pilot has options. It is included in > 5000 ft as an amber condition.	
253	UH-60	68		Delete Rule: Redundant. See Rule ID# 252.	
259	UH-60	86		Delete Rule: This is too restrictive as a red condition, pilot has options. It is included as an amber condition in > 5000 ft.	

Table 2-2. List of Subsystem Rules Recommended for Deletion

ID No.	Subsystem Name	Rule 1	Rule 2	Reason for Deletion	
7	120MM GUN	44		Delete Rule: No reference in FM 34-81-1, Dec 1992. Distance included in ID# 6 as an amber.	
13	30MM MACHINE GUN	74		Delete Rule: Personal interview with SME, 14 Nov 1997, CW4 Ronald C. Moring, Regiment Master Gunner, 229 Attack Helicopter Regiment, Ft. Bragg, NC.	
25	FIRING SYSTEM	19		Delete Rule: No longer valid. USAFAS POC SFC Saeda, 3 Dec 1997	
26	GENERATOR	1		Delete Rule: Not ncesessary since amber value is now 8000 meters	
41	HEMTT TRUCK	54		Delete Rule: Too restrictive, included in Rule ID# 40 as an Amber condition.	
42	HEMTT TRUCK	58		Delete Rule: Too restrictive, included in Rule ID# 43 as an Amber condition	
45	HET TRUCK TRACTOR	54		Delete Rule: Too Restrictive. Included in Rule ID# 44 as an Amber condition	
46	HET TRUCK TRACTOR	58		Delete Rule: Too restrictive. Included in Rule ID# 47 as an Amber condition	

ID No.	Subsystem Name	Rule 1	Rule 2	Reason for Deletion	
56	MAVERICK	35		Delete Rule: No reference in T.O.1-1M-34 for this condition. Pilots say it is a matter of searching out an alternative solution.	
67	OH-58 ENGINE	68		Delete Rule: Incorporated in OH-58C System Rule ID# 161.	
68	PERSONNEL MOVEMENT	28		Delete Rule: Too restricitive. FM 90-22 talks only of deep snow. See Rule ID# 69	
71	PERSONNEL MOVEMENT	55		Delete Rule: Too restrictive. FM 90-22 does not specifically mention freezing rain. See Rule ID# 72.	
74	PERSONNEL MOVEMENT	59		Delete Rule: FM 90-22, Jan 1991 and TBM 81, Sep 1976 speak only of deep snow. See Rule ID# 73	
77	PPS-5B BATTERY	8		Delete Rule: No mention of this temperature sensitivity in TM 11-5840-298-12, Para 3-28, Jun 1986	
88	STINGER- GRND	97	97	Delete Rule: Personal interviews with SME, 19 Nov 1997. CWR James D. Morgan, Master Gunner, 82 Aviation Brigade, Ft Bragg, NC. This is a "see and strike" weapon. Cloud bases and cover not significant.	
89	STINGER- GRND	102	102	Delete Rule: Personal interviews with SME, 19 Nov 1997. CWR James D. Morgan, Master Gunner, 82 Aviation Brigade, Ft Bragg, NC. This is a "see and strike" weapon. Cloud bases and cover not significant.	
95	TOW-AIR	60		Delete Rule: TM 9-1425-472-12, Para 2-88, Nov 1990; Unusual conditions makes no mention of this impact.	
101	TOW-GRND	59		Delete Rule: TM 9-1425-472-12, Para 2-88, Nov 1990; Unusual conditions makes no mention of this impact.	
103	TOW2-AIR	60		Delete Rule: TM 9-1425-472-12, Para 2-88, Nov 1990; Unusual conditions makes no mention of this impact.	
109	TOW2-GRND	59		Delete Rule: TM 9-1425-472-12, Para 2-88, Nov 1990; Unusual conditions makes no mention of this impact.	
113	TRACKED PLATFORM	41		Delete Rule: Personal interview with CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, Ft. Bragg, NC. 12 Nov 1997. Not significant.	
117	TRQ-32V	89		Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997.	
118	TRQ-32V ANTENNA	32		Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997.	
119	TRQ-32V ANTENNA	64		Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997.	
120	TRQ-32V ANTENNA	66		Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997.	
125	UH-60 ENGINE	63		Delete Rule: Replaced by Ssytem Rule ID# 252	
126	UH-60 ENGINE	68		Delete Rule: Not necessary, covered in rule SYS ID# 252	
129	VRC-46	19		Delete Rule: TM 11-5820-401-10-2, Aug 1995. Operator's Manual makes no mention of hot temperatures anywhere.	

Table 2-3. List of Component Rules Recommended for Deletion

ID No.	Component Name	Rule 1	Rule 2	Reason for Deletion
1	30 MM MACHINE GUN	46		Delete Rule: Redundant with Subsystem Rule #ID 12
2	AN/MPQ-53 (PATRIOT RADAR ANT)	55		Delete Rule: TM9-1430-601-10-1, Operator's Manual makes no mention of any impact from freezing rain, May 1997
3	AN/MPQ-53 (PATRIOT RADAR ANT)	57		Delete Rule: TM9-1430-601-10-1, Operator's Manual makes no mention of any impact from freezing rain, May 1997

ID No.	Component Name	Rule 1	Rule 2	Reason for Deletion	
4	AN/MPQ-53 (PATRIOT RADAR ANT)	58		Delete Rule: TM9-1430-601-10-1, Operator's Manual makes no mention of any impact from snow, May 1997	
5	AN/MPQ-53 (PATRIOT RADAR ANT)	59		Delete Rule: TM9-1430-601-10-1, Operator's Manual makes no mention of any impact from snow, May 1997	
14	COPPERHEAD	107	107	Delete Rule: Redundent with rules ID# 12 and 13.	
37	NIGHT VISION SIGHT	21		Delete Rule: Could not validate and may be too system specific for general class of all night vision sight.	
40	OA-9054 ANTENNA	69		Delete Rule: Could not find any reference material.	
41	OA-9054 ANTENNA	71		Delete Rule: Could not find any reference material.	
68	TOW- COMMON	9		Delete Rule: Redundant with Rule ID# 67 and reference to - 10 F not found.	
74	TOW2- COMMON	9		Delete Rule: Redundant with Rule ID# 73 and no reference found to - 20 F.	

#### 2.4.2 Summary Comments on Changes

A summary of the number and types of changes is contained in Table 2-4.

Table 2-4. Summary of Changes

No. of Color No. of Impact No.

	No. of Rules	No. of Color Changes	No. of Impact Changes	No. of CV Changes	No. Deleted
Systems	259	46	117	115	84
Subsystems	137	12	51	57	28
Components	97	3	27	30	11

#### 2.4.3 New Critical Value Data

No new CV data were added to the existing IWEDA rule base because of potential confusion with the existing numbering system. However, several potential rules and CVs were identified and are included in Table 2-5.

Table 2-5. Potential New Critical Values and Rules

Item Name	New Critical Value			New Color	New Impact Statement	New Source
	Parameter	Operator	Value		, i	
2.75" Rocket	Gust Spread	>=	10 kt	Amber	Wind gust spread >= 10 kt degrades target impact effectiveness.	Personal interview with SME, 14 Nov 97, CW4 R. Moring, Master Gunner, 229 Attack Helicopter Reg., Fort Bragg, NC.
Maverick	Temperature	<	45 °F	Amber	Maverick motors should not be operated in temperatures <-45 °F	AFT01-1M-34, May 91, Para 1-102.41
Maverick	Temperature	>=	131 °F	Amber	Maverick motors should not be operated in temperatures >131 °F.	AFT01-1M-34, May 91, Para 1-102.41
Tow Gnd	Temperature	>	140 °F	Amber	Tow missile will not operate properly at temperature >140 °F.	TM9-1425-472-12, Jan 80, Para 2-76

#### 3. IWEDA COMMENTS

Two types of comments are included in this section. First are comments on the general design, operation, and content of the entire IWEDA system. The second series of comments deals specifically with the software aspects of IWEDA.

#### 3.1 GENERAL IWEDA COMMENTS

Some of the comments and questions raised in this paragraph have proposed solutions or answers. Other issues require detailed analysis and evaluation, which is beyond the scope of this report. However, they are identified because of their importance to the overall IWEDA effort.

#### 3.1.1 Threat Critical Values

There are some CVs for threat systems. However, the number and types of systems and operations are limited.

The CV database and the rule sets that have been developed for threat systems need to be expanded to include a broader range of systems and operations. In addition to the normal threat systems, which are usually considered systems from the old Soviet Block countries, information on systems available from U.S. allies or through arms dealers from any source should be included since it might be used by forces opposing the United States in small regional conflicts. Contact should be reinitiated with the National Ground Intelligence Center (NGIC) and other national-level intelligence agencies to establish the need for this information and to establish a priority for the completion of this effort. Security issues must be addressed here and as the Army-wide CVDB expands.

#### 3.1.2 Rule Editor

One of the initial comments from users of IWEDA was a request for a rule editor allowing the local user to change the preset CVs. The ARL-W has developed a working version of a rule editor to temporarily (locally) modify the default values in IWEDA. This rule editor will allow the staff weather officer (SWO) to change the CVs for systems and/or operations to meet local requirements.

The inclusion of a "local rule editor" in some versions of IWEDA will create the potential for serious misunderstandings about the impact of weather on systems and operations among various levels of command and/or units unless an official Army position on how to use the rule editor capability is clearly articulated. The need for, implications of, and doctrinal approval of an IWEDA rule editor must be

resolved through coordination among such organizations as USAIC&FH WST, DAMI-POB, and ARL-W.

#### 3.1.3 IWEDA Concept of Operations

The current version of FM 34-81, Weather Support for Army Tactical Operations, dated August 1989, does not include any official doctrine or procedures for, or even any mention of, IWEDA. Also, no official or unofficial doctrine on IWEDA's use for Army weather support is known Army-wide. However, some documentation and training are furnished by the New Equipment Training Team (NETT) for IMETS II on the operation of IWEDA.

At least two versions of IWEDA exist that can be used by weather personnel and Army weather support customers. The Unix-based version operating on the IMETS II will only have a very limited distribution because only 12–14 IMETS II will be fielded. The Disc Operating System- (DOS) based version of IWEDA is operable on most laptop computers. Every weather team at any level can use this version. In addition, copies of this version are provided to officers attending the Military Intelligence Officers Advanced Course at Fort Huachuca. It is estimated that approximately 800 copies of IWEDA will be distributed annually to U.S. Army officers who will be S-2s at tactical units throughout the Army.

A formal document should be published that contains guidance, doctrine, and/or procedures for the operation of both versions of IWEDA. This document should be in addition to the currently available IWEDA User's Guide and any NETT training or documentation. This document should also include information concerning when and how to use the IWEDA rule editor as mentioned in Subsection 3.1.2.

#### 3.1.4 Multiple Versions of IWEDA

As discussed in Subsection 3.1.3, multiple versions of IWEDA, both DOS- and Unix-based, exist in the field. The capabilities and CV rule bases of each system are different. The differences in capabilities of each version, for example, manual versus automated weather input and fixed rules versus the availability of an editing function, present some source of potential confusion. However, each version will also have a different CV rule base. Current plans do not include updating the CV rule base for the DOS-based version of IWEDA. As previously mentioned, more and more copies of the DOS-based version will be available and used in the field. The potential problems and conflicts that can rise between the two IWEDA versions are obvious and should not be allowed to occur.

All versions of IWEDA, DOS-based, or Unix-based, should have similar capabilities. At a minimum they all *must* have the same CV rule bases.

3-2

#### 3.1.5 Turbulence/Icing Levels

When the Unix version of IWEDA shows either a red or amber impact for icing or turbulence it does not tell the user the altitude of the phenomena. The flight level of the aircraft is not considered. In this situation, high-level turbulence or icing could falsely negate an Army aircraft mission operating at a much lower level. Therefore, whenever a turbulence or icing rule is fired it must include the base and top of the turbulence or icing layer.

#### 3.2 SPECIFIC IWEDA SOFTWARE COMMENTS

No changes were made to the construction, documentation, management, and maintenance of the actual IWEDA software. The following paragraphs sketch out additional capabilities and architectural considerations that must be eventually considered as IWEDA grows.

#### 3.2.1 IWEDA "Zoom" Capability

The original intent of IWEDA was to tell the commander clearly where, when, and why weather would impact an area of interest or a specific operational area. When viewing the geographical representations of locations where weather impacts will occur, the commander can immediately see if the red or the amber impact occurs in a specific area of operation. However, when viewing the "when" or "why" representations in a matrix display, it is not immediately clear whether the red or amber warning applies to the specific operational area or to the larger area of interest.

A zoom capability for IWEDA should be developed that allows the user to identify a specific area of operation and then receive graphical displays, both geographic and matrix formats, which display only the weather occurring within the specified area in place of the entire Battlescale Forecast Model (BFM) window.

#### 3.2.2 IWEDA "What-If" Capability

A "what-if" module should be made available on all versions of IWEDA. The what-if module will highlight the tradeoffs among systems, subsystems, and components with respect to the forecast weather and its impending effects.

The module would allow the SWO user to alter incrementally the weather database used in IWEDA and immediately see the repercussions with respect to weather effects. This capability is of obvious merit in training the SWO to understand the impact of the forecast upon the user and is also an

invaluable tool when weather conditions are in a state of flux and the SWO desires to ascertain quickly the effects of rapidly changing meteorological conditions.

The non-SWO user, while not having access to manipulating the weather data, is able to view the results of altering the mission and/or system configurations efficiently. The what-if module will, for example, allow the user to compare and contrast the effect of substituting one type of helicopter for another, or selecting different missiles or armament.

#### 3.2.3 War/Peace Switch

Many of the rules contained within IWEDA are based on limits imposed by peacetime constraints (e.g., safety of flight regulations). These limits may be significantly higher than the actual operational limits of the system. In a war scenario many of these peacetime constraints may be waived.

A capability should be included in IWEDA that would allow the commander to toggle between the two sets of values and observe the effect of the weather on less stringent wartime criteria.

#### 3.2.4 IWEDA System Architecture

The overall IWEDA system architecture needs to be reviewed and evaluated for several reasons. How does it fit into the Army software world? Is the IWEDA system big enough to contain the 5000 rules or must the system be redesigned? As more threat systems CV rules are developed, security becomes an increasingly significant issue that must be addressed early and comprehensively.

As the CV database is increased in size the systems engineering design for IWEDA should be reevaluated. There may be faster, more efficient ways to design and operate the internal inference engine in IWEDA, especially if the current barebones IWEDA is enhanced to become a more user-friendly system with more capabilities and the CV rule base is expanded to several thousand rules. Laptop compatibility must be a consideration for the Unix version.

As the size of the CV rule base increases, it will be necessary to design and implement procedures (capabilities) in IWEDA that will allow users to limit IWEDA easily to specific systems that are of interest to them, for example, only systems in their own Modified Table of Organization and Equipment (MTOE).

#### 3.2.5 Climatology Training Packages for Use with IWEDA

As the use of IWEDA becomes more widespread (e.g., Military Intelligence officers incorporating IWEDA into their Intelligence Preparation of the Battlefield [IPB] products), the need for readily available, easy to use geographically and meteorologically varied weather data will increase.

A series of climatologically-based databases should be developed for use on IWEDA, in addition to using data produced by the BFM. The IWEDA system could be modified so that any user can easily input the climatology data for planning, training, or for a local exercise. This system modification will be more realistic than using "canned weather" for these activities. Dr. Paul Krause of the U.S. Army Topographic Engineering Center has developed a "Typical Day Generator" that might be adapted to assist in the quick preparation of the climatology packages for various locations at different times of the year.

#### 4. CONCLUSIONS AND RECOMMENDATIONS

IWEDA, and its associated rule base, has become an accepted operational weather support decision aid. Its continued acceptance and utility will depend to a great extent on the quality and quantity of its knowledge base and its compatibility with host systems, ease of use, and the technical capabilities of its software. The conclusions and recommendations in this section summarize the results of the validation efforts and suggestions aimed at ensuring that IWEDA continues as a respected and accepted weather support asset.

#### 4.1 CONCLUSIONS

The results of this effort, to validate the rules currently found in IWEDA II, highlight two major conclusions. First, rules quickly become outdated as systems change. Second, data collection is a long, resource intensive process involving both library research and personal interviews.

The Army-wide CV database being prepared by the WST must be viewed as a continuing, ongoing program. The current effort cannot be completed and then placed on the shelf, forgotten, and not maintained. Systems are upgraded and replaced resulting in a constantly changing set of CVs. Technology is improved making weather forecasting and observing more accurate and sensitive to the scale of products required on the battlefield. A system must be established that maintains this newly developed Army-wide database to ensure that IWEDA, and all other users, always have current and accurate CV data.

The magnitude of the effort required to establish an Army-wide CV database cannot be underestimated. The lack of a system to identify CV data during system development results in a loss of critical information for the warfighter and a significant workload for the CV database builder. No central library exists where all applicable Army publications (e.g., technical manuals and field manuals) can be obtained for easy careful review. All libraries do not always maintain the current version of every reference document they have on their shelves. Multiple Army centers, schools, tactical units, and other institutions must be visited to obtain and review the documents and interview the SMEs who can provide the expertise required to make the CV database a creditable program. The Army must be willing to dedicate the resources to build and maintain a creditable IWEDA CV database.

#### 4.2 RECOMMENDATIONS

The following recommendations are listed in priority order of importance. They were described in the preceding sections. Each topic contains a brief summary and the paragraph number where more detailed information is presented.

- 1. **Multiple Versions of IWEDA (3.1).** Ensure that all system capabilities and CV rule bases are similar and consistent regardless of the platform on which they operate.
- 2. **IWEDA** Concept of Operations (3.1). Develop and distribute a concept for the integrated operational use of the Unix- and DOS-based versions of IWEDA.
- 3. **IWEDA System Architecture (3.2).** Ensure that as IWEDA capabilities are expanded that the design and architecture of IWEDA are compatible with the Army's C4I design and architecture.
- 4. Critical Value Collection (4.1). Dedicate resources to the collection of Army-wide CV data to result in a creditable initial product.
- 5. Rule Editor (3.1). Develop and distribute a policy on the use and operation of the IWEDA rule editor to eliminate the potential for conflicts during its use.
- 6. Maintaining Critical Values (4.1). Establish a system that routinely identifies, collects, validates, and maintains all CV data.
- 7. What-If Capability (3.2). Develop the capability to evaluate tradeoffs between different systems and marginally different weather forecasts.
- 8. Threat Critical Values (3.1). Expand the threat portion of the rule base to include not only systems from the old Soviet Block but also systems sold by U.S. allies or third world countries.
- 9. Turbulence/Icing Levels (3.1). Include in the rules bases and tops of turbulence/icing layers for comparison to flight level of Army aircraft.
- 10. Climatology Training Packages for use with IWEDA (3.2). Develop a series of climatologically-based weather data modules for use in IWEDA for training, planning, and local exercises.
- 11. War/Peace Switch (3.2). Develop the capability to toggle between potentially more stringent peacetime constraints and potentially more relaxed wartime restrictions.
- 12. **IWEDA Zoom Capability (3.2).** Develop the capability to limit weather impacts displayed to the weather contained in a specific area of operation.

## APPENDIX A. ORIGINAL STATEMENT OF WORK

8 November 1996

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# STATEMENT OF WORK Modernized Army Weather Support and Organization

- 1. OBJECTIVE. Evaluate and recommend architectures in two areas:
- a. Required management structure linking interacting major Army commands (MACOM), agency staffs, and research and development (R&D) agencies.
- b. Best method to develop and employ technical capability to display weather information to the warfighter.

#### 2. BACKGROUND.

- a. Mission. The recommended management structure upon implementation will manage over \$40 million per year in Army operational support funding and in research and development (R&D) and deliver critical weather effects information to the warfighter. HQDA ODCSINT reported in the FY97 Federal Plan for Meteorological Services and Supporting Research for the use of Congress and the Executive Branch the Army would spend \$23.7M for operational support and \$19.6M in R&D.
  - (1) There is no single management structure overseeing the operational expenditure or directly linking warfighter weather requirements to weather R&D programs. All programs are well intended in their own right, but not focused on high payoff areas responsive to warfighter needs. Better management can combine parallel acquisitions and research to save resources and develop what the warfighter needs in this key, but often overlooked, part of combat intelligence. Better weather management structure could enable information from TECOM Meteorological (Met) teams testing activities to identify weather effects critical threshold values and apply them to tactical decision aids for warfighters.
  - (2) Automated weather tactical decision aids can provide valuable information to enable commanders to use smart munitions more effectively in adverse weather conditions. For example, during DESERT STORM in Battle of 73 Easting, the exchange ratio during low visibility, using bad weather tactics, was 144 Iraqi loses to 2 U.S. Army loses. This kind of result can be preplanned by knowing our own limitations, comparing them to threat limitations in adverse weather, and selecting the most effective mix of smart weapons systems and sensors. This approach can be maximized in Information Operations. A "hi-tech" approach to digital weather presentations, overlaid on the common relevant picture, visualization of weather in mission planning systems, and interchange of seamless current and forecast weather are key parts of Information Operations that need to be developed.
  - (3) To achieve these objectives, improved management of Army R&D must focus Army capabilities on developing and acquiring the assets to observe and forecast weather in field conditions on a higher level of resolution and to identify limitations on friendly and threat systems with the clear objective to exploit differences in limitations through Information Operations. Training Army soldiers on the importance of weather integration into operations is needed in core officer and NCO curricula, and in MI and combat arms OBC/OACs.

Prior Efforts. None that can be determined.

- 3. TASKS Describe what is to be done.
- a. Identify and adequate management organization and charter needed to manage Army weather programs and support functions.
  - (1) Identify key positions in HQDA. ODCSINT/DAMI-POB and ODCSOPS/DAMO-FDI, identify key positions in HQDA, ASA(RDA); TRADOC Headquarters, Centers, and Schools; Army Materiel Command and its major subordinate commands; U.S. Army Medical Research Command: U.S. Corps of Engineers; warfighting major commands needed to successfully manage the Army weather functional area.
  - (2) Identify deficiencies where key positions are needed but not filled.
  - (3) Describe process and organization to manage resources (acquisition programs, operational personnel, equipment, and supporting R&D).
  - (4) Describe a management process within current acquisition procedures to combine several low priority weather support requirements from several individual battlefield operating systems or functional areas within TRADOC to effectively build a consolidated support base to get funding for the capabilities the warfighter needs.
  - (5) Outline a plan and methodology to specify how the organization, recommended above, should be used to build the weather support capabilities Army component commanders need to support a "hi tech" Army force using digital C41 equipment to execute Information Operations.
  - (6) Recommend a procedure to ensure critical weather effect threshold values are collected during testing, archived, and made available to weather effects Tactical Decision Aid developers and program managers to build to support warfighting missions.
- b. Army warfighters need a coherent architecture and plan to develop the capability to provide weather information to them in an easily used and understandable format. This includes tactical decision aids showing impacts on operations overlaid on situation maps and the battlefield visualization of changing forecast weather conditions in mission planning systems, simulations, and in displays of weather satellite cloud movement.
  - (1) Describe high payoff mission areas where better weather information and battlefield visualization could improve Army tactical planning and execution.
  - (2) Describe key schools or training programs needed to formally teach advantages of integrating weather in routine planning procedures and build awareness of the potential adverse effects and process to use weather to the Friendly Force advantage.
  - (3) Recommend key organizations and outline procedures to integrate weather into developing Information Operations and Battlefield Visualization.

- (4) Recommend warfighting functions where better weather effects information should be used, i.e., targeting cells, automated intelligence preparation of the battlefield, rescue and night vision operations, aviation mission planning system, unmanned aerial vehicles, and advanced artillery deep operations, etc.
- c. Review commercial and private sector technologies to determine current availability of hardware and software for Army Research and Development to leverage to help meet the weather intelligence requirements of Army warfighters.

#### 4. DELIVERABLES.

a. Interim report and final bound document. Reference Basic 'K' Contract DD 1423 and the Scientific and Technical Reports data Item A002. The quantify is to be determined. The interim report and final bound document are due six months and one year, from start of study, respectively. Deliver to:

HQDA (DAMI-PPM, Mr. Nolan), Room 2E477 1022 Army Pentagon, Washington, D.C. 20310-1022.

#### 5. CONTROL PROCEDURES.

- a. Reviews will be held quarterly (every three [3] months), with an in-progress review (IPR) to be held six months from start of work.
- b. Monthly status reports will be submitted; reference Basic 'K' Contract DD 1423 and the Scientific and Technical Reports Data Item A002.
- c. Financial expenditures will be submitted monthly; reference Basic 'K' Contract DD 1423 and the Performance and Cost Report Data Item A003.
- 6. GOVERNMENT FURNISHED SUPPORT. To be determined.

## APPENDIX B. FIRST MODIFICATION TO STATEMENT OF WORK

18 June, 1997

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Contract #DACA76-93-D-0005 Delivery Order #0005

# ADDENDUM TO STATEMENT OF WORK Modernized Army Weather Support and Organization

#### 1. Change the following:

- a. Eliminate existing objective 1.b., Task 3.b., 3.b.(1) through (4), and 3.c. in the current Statement of Work (SOW) and insert new paragraph 1.b. and 3.b. as follows:
- 1.b. Provide enhancements to existing weather support by focusing on immediate payoffs for tactical ground warfighters.
- 3.b. Conclude activities on SOW study objective 1.a. (management structure) as described in paragraph (TASKS) 3.a. (1) (6). Refocus the remainder of the study to the new tasks stated below. This shifts the focus to immediate payoffs for warfighters.
- (1) Review the existing rules for the Integrated Weather Effects Decision Aids (IWEDA), Block II. Confirm the validity of the existing rules and weather effects critical values and recommend changes to rules or critical values, as appropriate.
- (a) Meet with or hold telephone/video conferences with USAIC&FH DCD Weather Section to assist the current state of work in progress. Obtain further guidance from the Weather Section to identify systems and areas of primary importance where contractor should assist.
- (b) Based on guidance from USAIC&FH DCD Weather Section, assist in updating existing IWEDA rules and critical values. Systems and operation used most often to support Major Army Command (MACOM) warfighters will take precedence. The objective is to review IWEDA rules and critical values to ensure MACOM corps/division/ACR/Aviation Brigade warfighters have accurate, reliable, and usable information presented to them when they view the IWEDA displays and map overlays. This includes validating the rules shown when components and subsystems are interrogated to determine why an area is colored red or yellow for a system or operations.
- (c) Visit user communities as required, to access existing Army or Air Force Weather effects databases to ensure current 1997 Army equipment and operational concepts are the basis for existing rules in IWEDA, IMETS Block II.
- (d) Use the USAIC&FH DCD facilities and equipment, including IMETS block II workstations resident at USAIC&FH, to review, modify, or update IWEDA databases and master data files/software.
- (e) Update USAIC&FH DCD Weather Section routinely throughout the process to facilitate expeditious application of contractor work in the larger project to update and enlarge future issues of IWEDA software.
  - (f) In the final bound document for this study:

- 1 List existing IMETS Block II, Integrated Weather Effects Decision Aids (IWEDA) rules for each operation or weapon system. In the list, compare the existing critical values for each rule with the new critical values that have been determined. Document and date the new critical values with source information such as technical manuals, interviews with users, interviews with OPRs (e.g., National Ground Intelligence Center action officers, III Corps units, Test and Evaluation Command (TECOM) Meteorological Teams, etc.). For each subsystem within the major weapon system or operation, list the subsystem, existing critical value, new critical value, and documentation of source of change information. Coordinate documentation procedures with the USAIC&FH DCD Weather section to facilitate direct use of results in the weather effects Critical Values Database.
- 2 List all software changes made for the USAIC&FH DCD Weather Section in IMETS IWEDA software. List will summarize changes made in software.
- (2) Upon completion of IWEDA work above continue to work with USAIC&FH DCD Weather section to build/develop a master list of standard templates/formats/graphic displays (referenced as templates hereafter) for weather information by Battlefield Functional areas (BFA) or Battlefield Operating Systems (BOS) to be hosted in the Block II IMETS software. Software may be on either IMETS workstation, as appropriate.
- (a) First priority are the Aviation BOS templates. Leverage existing USAIC&FH DCD Weather Section Work to develop a final set of aviation templates.
- (b) Next priority for development of templates is Terrain Analysis in Intelligence Preparation of the Battlefield (IPB). USAIC&FH is automating IPB weather analysis to encompass a series of standard graphic products and data fields of weather information. Develop the set of templates needed for planning (based on climatology), and for execution (based on current and forecast weather conditions). Develop a standard set of graphics that meet requirements of Terrain Analysis, tailored for direct, immediate use by current and future terrain systems (i.e., DTSS, CTIS). Templates will be hosted on IMETS Block II and later systems. Templates will become the default set of IPB weather tools to prepare weather analysis products, tailored and ready for direct application into CTIS for further processing in IPB Terrain Analysis.
  - (c) Evaluate and list electro-optical TDA needed by current or emerging weapons systems.
  - (d) In the final bound document for this study:
- $\underline{1}$  Develop/provide a master list of new or modified templates/graphic displays created in the effort.
  - 2 List individual charts, templates, and displays developed.
- <u>3</u> Develop/provide a list of, recommending for future development, all TDA not yet developed but recognized as needed based on experience in working with users in this effort. For example, this list may include electro-optical tactical decision aids (EOTDA) for an existing system (e.g., Apache Target Acquisition and Designation System/Pilot Night Vision System [TADS/PNVS]) or for new emerging systems (e.g., Commanche stealth technology).

- 4 Develop/provide a checklist of procedures to develop and validate the user of an IWEDA tactical decision aid.
- (e) Provide USAIC&FH DCD and PD IMETS hard copies of each new template and provide software copies of the templates on disk or other media required by USAIC&FH DCD Weather Section, with information copy to DAMI-POB.

# APPENDIX C. STC LETTER REQUESTING EXTENSION



### SCIENCE and TECHNOLOGY CORP.

101 Research Drive, Hampton, Virginia 23666-1340 USA Telephone: (757) 865-1894 Fax: (757) 865-1294 Home Page: http://www.stcnet.com

# REPLY TO ATTN OF: STC CONTRACTS DEPT CONTRACTS@STCNET.COM

6293-005

28 August 1997

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US Army Topographic Engineering Center Contracts Office, CETEC-CT, Ms. May M. Lew 7701 Telegraph Road Alexandria, Virginia 22315-3864

Reference:

Contract No. DACA76-93-D-0005, Delivery Order No. 0005

Subject:

Request for Completion Date Extension

Dear Ms. Lew:

Science and Technology Corporation (STC) requests that the completion date of the referenced delivery order be extended through 31 March 1998, at no additional cost to the Government.

This extension is requested to allow additional time to complete the delivery order requirements as a result of two additional subtasks to the Statement of Work (SOW) authorized by Modification No. 000502: Paragraph 3.b.(1), which requires validation of IWEDA rules (IWEDA subtask); and Paragraph 3.b.(2), which requires the development of a list of templates/graphic displays (template subtask).

Based on a new completion date of 31 March 1998, STC proposes the following revised delivery schedule:

- Technical effort on the original SOW tasks and on the IWEDA subtask will be completed with all deliverables submitted by 12 December 1997 (the original due date).
- Technical effort on the template subtask will be completed with all deliverables submitted by 31 March 1998.

6293-004 Ms. May Lew, TEC 28 August 1997 Page 2

The revised delivery schedule and completion date extension, as proposed, has been coordinated with the following Government technical representatives: Ms. Joni Jarrett, COTR; Mr. Steve Nolan, Technical Monitor, DAMI-IFM; and Mr. Lee Page, Technical Monitor, DAMI-POB. Coordination and concurrence was obtained on this date per telecon between Mr. Steve Nolan and Mr. Carl Chesley of STC.

Your consideration of our request is appreciated. If you have any questions of a technical nature, please contact Mr. Chesley at our Hampton Technical Office, (757) 865-0467; please direct all other questions to Ms. Carla A. Coombs, Sr. Contract Administrator, at our Hampton Corporate Office (757) 865-1894.

Sincerely,

Edward G. Bimler

Vice President - Contracts

CAC/

cc: Mr. Steve Nolan, DAMI-IFM

Mr. Lee Page, DAMI-POB

Ms. Joni Jarrett, USATEC COTR

# APPENDIX D. LIST OF IWEDA DEVELOPMENT REFERENCES

# IWEDA Development References:

- Chesley, C. H., W. G. Maunz, A. R. Spillane, and S. L. Eure, 1991: Evaluation of the U.S. Army Atmospheric Sciences Laboratory Weather Decision Aids. STC Technical Report 2471, Science and Technology Corporation, Hampton, Virginia.
- Chesley, C. H., W. G. Maunz, A. R. Spillane, and S. L. Eure, 1992: Software Engineering Plan for the U.S. Army Atmospheric Laboratory's Integrated Weather Decision Aid (IWEDA) Software Program. STC Technical Report 2582(1), Science and Technology Corporation, Hampton, Virginia.
- Chesley, C. H., W. G. Maunz, A. R. Spillane, S. L. Eure, and P. J. Shaw, 1992: Engineering Plan of the Integrated Weather Effects Decision Aids (IWEDA) Software Program. STC Technical Report 2582, Science and Technology Corporation, Hampton, Virginia.
- Chesley, C. H., A. R. Spillane, W. G. Maunz, and T. J. Dube, 1994: *Integrated Weather Effects Decision Aid (IWEDA), Version 1.10a Final Status Report*. STC Technical Report 2885, Science and Technology Corporation, Hampton, Virginia.
- Maunz, W. G., C. H. Chesley, and A. R. Spillane, 1993: Development of Integrated Weather Effects Decision Aid (IWEDA) Software. STC Technical Report 6235, Science and Technology Corporation, Hampton, Virginia.

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# APPENDIX E. ORGANIZATIONS AND PERSONNEL VISITED

# Organizations and Personnel Visited

Organization/Unit	Location	Personnel (As appropriate)
Fort Huachuca MOS Library	Fort Huachuca, AZ	
Tactical, training units	Fort Huachuca, AZ	
UAV test unit	Fort Huachuca, AZ	
Weapons and Tactics Branch	HQ ACC, VA	Majors R. Goodwyn, C. Fisher, M. Decesari, and W. Montgomery
Main Post Library	HQ TRADOC, VA	
Aviation Applied Technology Directorate of the Aviation Support Facility	Fort Eustis, VA	Mr. J. Benham
CH-47 Support Facility	Fort Eustis, VA	Mr. M. Sloan
Aviation and Transportation School Library	Fort Eustis, VA	
7th Transportation Group	Fort Eustis, VA	Mr. K. Winget
6th Transportation Battalion	Fort Eustis, VA	SSgt D. Fuller, Sgt S. Gibbs, Sgt J. Moore
MOS library	Fort Eustis, VA	
18 Weather Squadron	Fort Bragg, NC	Lt Col D. Smarsh, SMSgt M. Gideons, Capt L. Rourke
Main Post ALC	Fort Bragg, NC	Mr. M. Cates
229th Attack Helicopter Regiment	Fort Bragg, NC	CW4 R. Moring
HHC 1-52 Armored Battalion	Fort Bragg, NC	CSM D.Schwab
Old Division Area ALC	Fort Bragg, NC	Mr. R. Browning, Mr. J. Cherry
82 <sup>nd</sup> ALC	Fort Bragg, NC	Mr. D. Minshear, Mr. J. Anderson
82 <sup>nd</sup> Aviation Brigade	Fort Bragg, NC	CW4 J. Morgan
XVIII Corps Artillery ALC	Fort Bragg, NC	Mr. J. Manning, Mr. V. Di Lorenzo
Material Maintenance Division	Fort Bragg, NC	
Weather Support Team, USAIC&FH	ARL-W	Mr. D. Adamson
IMETS Project Office	ARL-W	Mr. J. Swanson
Weather Exploitation Branch	ARL-W	Dr. R. Shirkey
HQ AWS/XPPP	ARL-W	MSGT C. Imhof
DCD, USAAVNC	ARL-W	Capt D. Bray
AMPS Program Office	ARL-W	Mr. J. Donnely

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# APPENDIX F. LIST OF CONDENSED IMPACTS BY PRIORITY

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# CONDENSED IMPACT WORDS vs. CRITICAL VALUES BY PRIORITY

Condensed Impact/Value	Condensed Impact/Value	0 1 11
	Condensed Impactivatue	Condensed Impact/Value
Thunderstorm > None		
Hail > None		
Freezing Rain	Freezing Rain	Heavy Freezing Rain
> None	> Light	> Moderate
Snow	Snow	Heavy Snow
≥ 1000 ≤ 9000 Meters	> 400 < 1000 Meters	≤ 400 Meters
Rain	Rain	Heavy Rain
> None	> Light	> Moderate
Reduced Visibility	Low Visibility	Very Low Visibility
> 4800 ≤ 9000 Meters	≥ 1000 ≤ 4800 Meters	< 1000 Meters
Clouds	Low Clouds	Very Low Clouds
≥ 3000 Feet	≥ 1000 < 3000 Feet	< 1000 Feet
Icing Aloft	Icing Aloft	Severe Icing Aloft
> None	> Light	> Moderate
Turbulence Aloft	Turbulence Aloft	Severe Turbulence Aloft
> None	> Light	> Moderate
Light Mist	Mist	Fog
> 4800 ≤ 9000 Meters	≥ 1000 <= 4800 Meters	< 1000 Meters
Drizzle	Drizzle	Heavy Drizzle
≥ 1000 ≤ 9000 Meters	> 400 < 1000 Meters	≤ 400 Meters
Blowing Snow	Snowstorm	Severe Snowstorm
≥ 1000 ≤ 9000 Meters	≥ 500 < 1000 Meters	< 500 Meters
Blowing Sand	Sandstorm	Severe Sandstorm
≥ 1000 ≤ 9000 Meters	≥ 500 < 1000 Meters	< 500 Meters
Shallow Snow	Moderate Snow Cover	Deep Snow
≥ 1 < 4 Inches	≥ 4 <= 12 Inches	> 12 Inches
Surface Wind	Strong Surface Wind	Very Strong Surface Wind
≥ 15 < 35 Knots		≥ 50 Knots
	· • · · · · · · · · · · · · · · · · · ·	Very Strong Gust
	<del></del>	≥ 50 Knots
		Extreme Cold
	· · · · · · · · · · · · · · · · · · ·	≤ - 20° F
	.4	Extreme Heat
		> 125° F
		Extreme Wind Chill
	<del></del>	≤ - 25° F, > 0 Knots
		Extreme Dewpoint Temperature
	<del></del>	≥ 95° F High Relative Humidity
	. +	> 95 %
	<del>                                     </del>	Very High Density Altitude
	· • · · · · · · · · · · · · · · · · · ·	≥ 10000 Feet
	•	Very High Pressure Altitude
		≥ 10000 Feet Unstable Atmosphere
	·+	
· · · · · · · · · · · · · · · · · · ·		A, B, C
	·	
	High Flourition	Von High Floration
	· <del> </del> · · · · · · · · · · · · · · · · · · ·	Very High Elevation
Slope	≥ 5000 < 10,000 Feet  Moderate Slope	≥ 10,000 Feet Steep Slope
	, moderate Jidde I	<b>ラルモビル ろいひせ</b>
	> None	None

# APPENDIX G. ALL RULES ALL FIELDS

This appendix contains three sections:

- 1. IWEDA System Rules
- 2. IWEDA Subsystem Rules
- 3. IWEDA Component Rules

**IWEDA System Rules** 

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	IWEDA S	ystem Rul	es	
ID # 1 System Name Old Color 1 New Color 1	!AGS-17!			le 2 # Delete Rule? N nged Color? N
Parameter 1 # 26 Old Param. 1 ID v	isibility Nev	Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 # Old Param. 2 ID	Nev	v Param. 2 ID		Changed Param. 2?
Old Value 1 800	New Value 1	8	00 meters	Changed Value1? N
Old Value 2	New Value 2	2		Changed Value 2?
Old Operator 1 < New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Reduced Visibility Impact	New Conde	ensed	Very Low Visibility	Changed Condensed Y Impact?
Old Full Impact Visibility less than 800 meters	s makes it difficult to	acquire/identif	y targets.	
New Full Impact Visibility < 800 meters makes	it difficult to acquire	identify target	s.	
Old Source (Army FM 34-81-1, Battlefield We	eather Effects, 1992):	1		Changed Full Impact?
New Source/ Reason for Delete FM 34-81-1, pg. N-4, Dec 1992				
Comments				
Changed Source? Y	Are There Any (2) O	ptions? N		Any Change to Record?
ID # 2 System Name	!AT-3!		Rule 1 # 49 Ru	le 2 # Delete Rule? N
Old Color 1 New Color 2			Cha	nged Color? Y
Parameter 1 # 26 Old Param. 1 ID v	risibility Nev	v Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 # Old Param. 2 ID	Nev	v Param. 2 ID		Changed Param. 2?
Old Value 1 800	New Value	1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	00 meters	Changed Value1? N
Old Value 2	New Value 2	2		Changed Value 2?
Old Operator 1	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Reduced Visibility Impact	New Conde Impact	ensed	Very Low Visibility	Changed Condensed Y Impact?
Old Full Impact Visibility less than 800 meter	s makes it difficult to	acquire/identi	y targets.	
New Full Impact Visibility < 800 meters makes	it difficult to acquire	dentify target	s.	
Old Source (Army FM 34-81-1, Battlefield We	eather Effects, 1992);			Changed Full Impact?
New Source/ Reason for Delete FM 34-81-1, Pg. N-4, Dec 1992				
Comments				
Changed Source? Y	Are There Any (2) O	ptions?		Any Change to Record? Y

## IWEDA System Rules ID# 3 !AT-3! System Name Rule 1# 50 Rule 2# Delete Rule? 1 Old Color **New Color Changed Color?** N Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Old Param. 2 ID Parameter 2 # New Param. 2 ID Changed Param. 2? 600 3000 meters Old Value 1 New Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Old Operator 1 New Opt. 1 N Old Opt. 2 New Opt. 2 Changed Opt. 2? Reduced Visibility Old Condensed **New Condensed** Low Visibility Changed Condensed Impact Impact Impact? Old Full Impact Visibility less than 600 meters makes it difficult to acquire/identify targets. New Full Impact Visibility < 3000 meters makes it difficult to acquire/identify targets. Changed Full Impact? Υ Old Source (Army FM 34-81-1, Battlefield Weather Effects, 1992); New Source/ FM 34-81-1, pg. N-5, Dec 1992 Reason for Delete Comments Y Y Changed Source? Are There Any (2) Options? N Any Change to Record? !ERYX! ID# 4 Rule 1# 50 Rule 2# Delete Rule? System Name N Old Color New Color Changed Color? Changed Param. 1? N Parameter 1 # Old Param. 1 ID visibility New Param. 1 ID Visibility Parameter 2 # New Param. 2 ID Old Param. 2 ID Changed Param. 2? Old Value 1 600 New Value 1 600 meters Changed Value1? N Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Reduced Visibility New Condensed Very Low Visibility **Changed Condensed** Impact Impact? Impact Old Full Impact Visibility less than 600 meters makes it difficult to acquire/identify targets. New Full Impact Visibility < 600 meters makes it difficult to acquire/identify targets. Changed Full Impact? N Old Source (Army FM 34-81-1, Battlefield Weather Effects, 1992); New Source/ FM 34-81-1, pg. N-4, Dec 1992 Reason for Delete Comments Changed Source? Y Are There Any (2) Options? N Any Change to Record? Υ

				IVVEL	DA Sy	stem K	uies				
ID # 5 Sys	stem Na	ıme	!LC	W BLOW!			Rule 1	# 52 F	Rule 2 #	Delete Rule	? N
Old Color	1 1	New Color 1						Ch	nanged Co	olor? N	
Parameter 1 #	14	Old Param. 1 ID	rai	n	New P	aram. 1 IC	D	Rain		Changed Param.	1? N
Parameter 2 #		Old Param. 2 ID			New P	aram. 2 II	D			Changed Param. 2	2?
Old Value 1		1		New V	alue 1		light			Changed Value1?	Y
Old Value 2				New V	alue 2				Ī	Changed Value 2?	
Old Operator 1	>	New Opt. 1	>= Ch	anged Opt.	1? <b>Y</b>	Old Opt	. 2	New Opt. 2	2	Changed Opt. 2?	
Old Condense	d	Precipit	ation	New 0	Condens t	ed		Rain		Changed Condense Impact?	d Y
Old Full Impact	Raii	n of intensity of I	ight or greate	r degrades	the effe	ctiveness	of the rad	ar.			
New Full Impac	t Raiı	n of intensity of >	≔ light degra	ades the effe	ectivene	ess of the	radar.				
0110				. PEC . 1 . A4	200		<del></del>		Cha	inged Full Impact?	Y
Old Source  New Source/ Reason for Delete		FM 34-81-1, Battl 81-1, pg. N-8, De		er Effects, 1	992);						
Comments											
Changed Source		Υ	A	There Any	(O) O-4:-		N			Change to Record?	Y
· · · · · · · · · · · · · · · · · · ·	stem Na	nme New Color 1	!M/	ATHOGO!			Rule 1		Rule 2 # [	Delete Rule?	? N
Parameter 1 #		Old Param. 1 ID	visib	ility	New P	aram. 1 it	D	Visibility		Changed Param.	1? N
Parameter 2 #		Old Param. 2 ID			_	aram. 2 II				Changed Param. 2	
Old Value 1		2000		New V	J		2000 met	ere	<u> </u>	Changed Value1?	N
Old Value 2				New V						Changed Value 2?	
Old Operator 1	<=	New Opt. 1	Ch	anged Opt.		Old Ont	2	New Opt. 2	,	Changed Opt. 2?	H
Old Condense		Reduced \		New C	Condens			Visibility		Changed Condense	
Impact Old Full Impact	Visi	bility less than 2	000 meters m	Impac akes it diffi		cauire/id	entify targe	ets.		impact?	
						•					
New Full Impac	t Visi	bility < 2000 met	ers makes it	difficult to a	cquire/i	dentify ta	rgets.		·····		
									Cha	anged Full Impact?	Υ
Old Source  New Source/ Reason for Delete		FM 34-81-1, Battl 81-1, pg. N-5, De		er Effects, 1	992);						
Comments											
Changed Source	æ? [	Υ	Are	e There Any	(2) Optio	ons?	N		Any (	Change to Record?	Y

			IWE	OA Sy	stem R	ules						
ID# 7 Syste	m Name	!Mil	LAN 2!			Rule	e 1 #	42	Rule 2#	:	Delete Rule?	? N
Old Color 1	New Color 1								Changed	Color?	N	
Parameter 1 #	26 Old Param. 1 ID	visibilit	ty	New P	aram. 1 ll	o[	\ \	isibilit	<b>y</b>	Cha	anged Param. 1	? N
Parameter 2 #	Old Param. 2 ID			New P	aram. 2 II	ס				Cha	anged Param. 2	2?
Old Value 1	2000		New V	alue 1		2000 n	neters	3		Char	nged Value1?	N
Old Value 2			New V	alue 2						Char	nged Value 2?	
Old Operator 1	<= New Opt. 1	< Char	iged Opt. 1	1? <b>Y</b>	Old Opt	. 2	N	lew Opt	. 2	Cr	nanged Opt. 2?	
Old Condensed Impact	Reduced	Visibility	New C Impac	Condens t	ed	L	ow Vi	sibility		Char Impa	nged Condense ct?	d Y
Old Full Impact	Visibility less than	2000 meters mal	kes it diffi	cult to a	cquire/id	entify ta	rgets.					
New Full Impact	Visibility < 2000 me	ters makes it dif	ficult to a	cquire/i	dentify ta	rgets.						
Old Source (A	rmy FM 34-81-1, Batt	lefield Weather	Efforts 19	1021-					С	hanged	Full Impact?	Y
<u></u>	1 34-81-1, pg. N-5, De			,,								
Comments												一
Changed Source?	Y	Are T	here Any (	(2) Optio	ins?	N			Any	/ Chang	e to Record?	Y
ID# 8 System	m Name	IRE	3S-56I			Rule	e 1 #	42	Rule 2#		Delete Rule?	N
Old Color 1	New Color 1								Changed (	Color?	N	
Parameter 1 #	26 Old Param. 1 ID	visibilit	у	New P	aram. 1 IC	)	٧	isibility	,	Cha	anged Param. 1	? N
Parameter 2 #	Old Param. 2 ID			New Pa	aram. 2 IE	)				Cha	anged Param. 2	?
Old Value 1	2000		New Va	alue 1		2000 m	neters			Chan	ged Value1?	N
Old Value 2			New Va	alue 2						Chan	ged Value 2?	
Old Operator 1	<= New Opt. 1	< Chan	ged Opt. 1	? Y	Old Opt	2	N	ew Opt	. 2	Ch	anged Opt. 2?	
Old Condensed Impact	Reduced	Visibility	New C	ondense t	ed	Lo	ow Vi	sibility		Chan Impa	ged Condensed ct?	Y
Old Full Impact	Visibility less than 2	2000 meters mak	es it diffic	cult to a	cquire/ide	entify ta	rgets.					
New Full Impact	Visibility < 2000 me	ters makes it dif	ficult to a	cquire/id	dentify ta	rgets.						
Old Source (A)	rmy FM 34-81-1, Batt	lefield Weather	Effects, 19	92);					С	hanged	Full Impact?	Y
<u></u>	1 34-81-1, pg. N-5, De											
Comments												
Changed Source?	Y	Are T	here Any (	(2) Optio	ns?	N			Any	Chang	e to Record?	Y

						IWED	OA Sy	stem l	Rule	es					
ID# 9 S	System	Name		!	RED AR	ROW 8!				Rule 1#	41	Rule 2	#	Delete Rule	? N
Old Color	1	New	Color 1								(	Changed	Color?	N	
Parameter 1	# 26	Old	Param. 1 ID	٧	isibility		New P	aram. 1		V	isibility/	/	Ch	nanged Param.	1? N
Parameter 2	#	Old	Param. 2 ID				New P	aram. 2					Ch	nanged Param.	2?
Old Value 1			3000			New V	alue 1		30	000 meters	3		Cha	nged Value1?	N
Old Value 2						New V	alue 2						Cha	nged Value 2?	
Old Operato	r 1	<= 1	lew Opt. 1	<	Change	ed Opt. 1	1? Y	Old Op	ot. 2	N	lew Opt	. 2	c	hanged Opt. 2'	?
Old Condens Impact	sed		Reduced \	isibility/		New C	Condens t	ed		Low Vi	sibility		Cha Impa	nged Condens act?	ed Y
Old Full Impa	ict \	/isibilit	y less than 3	000 mete	rs makes	s it diffi	cult to a	cquire/i	dent	ify targets.					
New Fuil Imp	act	/isibilit	y < 3000 met	ers make	s it diffic	ult to a	cquire/i	dentify t	arge	ts.					
Old Source	(Arr	ny FM 3	34-81-1, Battl	efield We	ather Ef	fects, 1	992);					•	Change	d Full Impact?	Y
New Source/ Reason for Delete	FM	34-81-1	, pg. N-5, De	1992											
Comments															
Changed Sou	urce?	Y			Are The	ere Any	(2) Option	ons?	N	]		A	ny Chan	ge to Record?	Y
ID# 10 S	System	Name			IRPG	-16!				Rule 1#	49	Rule 2	#	Delete Rule	? N
Old Color	1	<u></u>	Color 1				_				(	Changed	i Color?	N	
Parameter 1	# 20	Old	Param. 1 ID	V	isibility		New P	aram. 1	ID	\	/isibility	<u>y</u>	Cł	nanged Param.	1? N
Parameter 2	#	Old	Param. 2 ID				New P	aram. 2	D				Cł	nanged Param.	2?
Old Value 1			800			New V	alue 1		8	00 meters			Cha	nged Value1?	N
Old Value 2						New V							Cha	nged Value 2?	
Old Operato	or 1 🗌	< !	New Opt. 1	<	Change	ed Opt.	1? N	Old Op	ot. 2	N	lew Opt	t. 2	c	hanged Opt. 2	?
Old Condens Impact	sed		Reduced \	/isibility		New (	Condens at	sed		Very Low	Visibil	ity	Cha Imp	inged Condens act?	ed Y
Old Full Impa	act	∕isibilit	y less than 8	00 meter	s makes	it diffic	ult to ac	quire/id	entif	fy targets.					
New Full Imp	pact	<b>Visibilit</b>	y < 800 mete	rs makes	it diffici	ult to ac	quire/id	lentify ta	rget	s.					
Old Source	(Arı	ny FM :	34-81-1, Batt	efield We	eather Ef	fects, 1	992);						Change	d Full Impact?	Y
New Source/ Reason for Delete	<u></u>		, pg. N-4, De												
Comments															
Changed So	urce?	Y			Are Th	ere Any	(2) Opti	ons?	N			Α	ny Chan	ige to Record?	Y

## **IWEDA System Rules** ID# 11 System Name IRPG-18! Rule 1# 39 Rule 2# Delete Rule? Old Color **New Color** Changed Color? N Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N New Param. 2 ID Parameter 2 # Old Param. 2 ID Changed Param. 2? Old Value 1 200 New Value 1 200 meters Changed Value1? Old Value 2 New Value 2 Changed Value 2? Y Old Opt. 2 Old Operator 1 New Opt. 1 Changed Opt. 1? New Opt. 2 Changed Opt. 2? Changed Condensed Y Old Condensed Reduced Visibility **New Condensed** Very Low Visibility Impact Impact Impact? Old Full Impact Visibility less than 200 meters makes it difficult to acquire/identify targets. Visibility < 200 meters makes it difficult to acquire/identify targets. New Full Impact Changed Full Impact? Υ (Army FM 34-81-1, Battlefield Weather Effects, 1992); Old Source New Source/ FM 34-81-1, Pg. N-4, Dec 1992 Reason for Delete Comments Y Υ Changed Source? Are There Any (2) Options? N Any Change to Record? !RPG-7! ID# 12 Rule 1# 40 Rule 2# Delete Rule? N System Name Old Color **New Color** Changed Color? N Parameter 1 # Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 500 New Value 1 500 meters Changed Value1? N Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 Old Condensed Reduced Visibility **New Condensed** Very Low Visibility Changed Condensed Υ Impact Impact Impact? Old Full Impact Visibility less than 500 meters makes it difficult to acquire/identify targets. Visibility < 500 meters makes it difficult to acquire/identify targets. New Full Impact Y Changed Full Impact? Old Source (Army FM 34-81-1, Battlefield Weather Effects, 1992); New Source/ FM 34-81-1, pg. N-4, Dec 1992 Reason for Delete Comments Υ Changed Source? Υ Are There Any (2) Options? N Any Change to Record?

				iWi	EDA Sy	stem R	ules					
ID# 13 Sy	stem Name			ISA-14I			Rule 1 #	40	Rule 2#		Delete Rule?	N
Old Color	2 New	Color 2							Changed C	olor?	N	
Parameter 1 #	<b>26</b> Old	Param. 1 ID	vi	sibility	New P	aram. 1 ID		Visibilit	у	Cha	inged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID			New F	aram. 2 ID				Cha	nged Param. 2	?
Old Value 1		500		New	v Value 1		500 meter	s		Chan	ged Value1?	N
Old Value 2				New	Value 2					Chan	ged Value 2?	
Old Operator 1	1 < 1	lew Opt. 1	<	Changed Op	ot. 1? N	Old Opt.	2	New Opt	t. 2	Ch	anged Opt. 2?	
Old Condense Impact	d	Reduced V	isibility		w Condens pact	sed	Very Lov	v Visibil	ity	Chang Impac	ged Condensed	d Y
Old Full Impact	Visibility	less than 50	00 meters	makes it dif	ficult to ac	quire/ider	ntify targets.					
New Full Impac	t Visibilit	/ < 500 meter	s makes	it difficult to	acquire/id	lentify targ	gets.					
Old Source	(Army FM 3	34-81-1, Battle	efield We	ather Effects	. 1992):				Ch	anged	Full Impact?	Y
New Source/ Reason for Delete		, pg. N-4, Dec										
Comments												
Changed Source	ce? Y			Are There A	ny (2) Optio	ons? [	N		Any	Change	e to Record?	Y
ID # 14 Sy	stem Name			ISA-14!			Rule 1 #	108	Rule 2#	108	Delete Rule?	N
Old Color	1 New	Color 1							Changed C	olor?	N	
Parameter 1 #	4 Old	Param. 1 ID	clo	udcover	New F	Param. 1 ID	С	loud Co	ver	Che	inged Param. 1	? N
Parameter 2 #	3 Old	Param. 2 ID	clo	oudbase	New F	Param. 2 ID	) (	loud Ba	ise	Cha	anged Param. 2	:? N
Old Value 1		4		Nev	v Value 1		Broken			Chan	ged Value1?	Y
Old Value 2		1000		Nev	v Value 2	1000 Ft.				Chan	ged Value 2?	N
Old Operator	1 > !	New Opt. 1	>=	Changed Op	ot. 1? Y	Old Opt.	2 <=	New Op	t. 2 <=	Ch	anged Opt. 2?	N
Old Condense Impact	ed	Cloud	ds		w Condens pact	sed	Very Lo	w Cloud	ds	Chan Impa	ged Condensect?	d Y
Old Full Impac	t Cloud c	over > 4/8 wi	th cloud	bases <= 100	00 ft degra	des the ab	ility to acqu	ire targe	ets.			
New Full Impa	ct Ceilings	s < 1000 ft de	grades th	e ability to a	cquire tar	gets.						
									CI	nanged	Full Impact?	Y
Old Source		34-81-1, Battl		ather Effects	s, 1992);							
New Source/ Reason for Delete	FM 34-81-1	, pg. N-3, De	1992									
Comments												
Changed Sour	ce? Y			Are There A	ny (2) Opti	ons?	Y		Any	Chanc	e to Record?	Y

			IWED	A Sys	tem Rui	es					
ID # 15 Syste	em Name	18	SA-16!			Rule 1 #	40 R	ule 2 # [		Delete Rule	? N
Old Color 2	New Color 2						Cha	anged Co	lor?	N	
Parameter 1 #	26 Old Param. 1 ID	visibili	ity	New Pa	ram. 1 ID	Vi	sibility		Chang	ged Param.	1? N
Parameter 2 #	Old Param. 2 ID			New Pa	ram. 2 ID				Chang	ged Param.	2?
Old Value 1	500		New Val	ue 1		500 meters			_ Change	d Value1?	N
Old Value 2			New Val	ue 2				j	Change	d Value 2?	
Old Operator 1	< New Opt. 1	< Char	nged Opt. 1?	N	Old Opt. 2	Ne	w Opt. 2	, L	Chan	ged Opt. 23	, 🗀
Old Condensed Impact	Reduced V	isibility/	New Co	ondense	d	Very Low \	/isibility		_ Change Impact?	d Condense	ed Y
Old Full Impact	Visibility less than 5	00 meters mak	es it difficul	t to acq	uire/identif	y targets.					
New Full Impact	Visibility < 500 meter	rs makes it ver	y difficult to	acquir	e/identify to	argets.					
F								Cha	nged Fu	il Impact?	Y
	rmy FM 34-81-1, Battle		Effects, 199	)2);		MINTO.					
New Source/ Reason for Delete	W 34-81-1, pg. N-4, Dec	: 1992									
Comments									· · · · ·		
Changed Source?	Y	Are 1	There Any (2	) Option	s? N			Any C	hange t	o Record?	Y
ID# 16 Syste	m Name	!S	A-16!			Rule 1#	91 R	ule 2 #	91	Delete Rule	? N
Old Color 1	New Color 1						Cha	inged Co	lor?	N	
Parameter 1 #	4 Old Param. 1 ID	cloudco	ver	New Par	ram. 1 ID	Clou	d Cover		Chang	ed Param.	1? N
Parameter 2 #	3 Old Param. 2 ID	cloudba	ise I	New Pai	ram. 2 ID	Clou	ıd Base	,	Chang	ed Param.	2? N
Old Value 1	4		New Valu	ue 1		broken			Change	d Value1?	Y
Old Value 2	2500		New Valu	ue 2	2500 Ft.			,	Change	d Value 2?	N
Old Operator 1	> New Opt. 1	>= Chan	nged Opt. 1?	Y	Old Opt. 2	<= Ne	w Opt. 2	<=	Chan	ged Opt. 2?	N
Old Condensed Impact	Cloud		New Co Impact		d	Low Clo	ouds		-	d Condense	
Old Full Impact	Cloud cover > 4/8 wif	h cloud bases	<= 2500 ft c	legrade	s the ability	y to acquire	targets.				
New Full Impact	Ceilings < 2500 ft deg	grades the abil	ity to acquir	re targe	ts.						
Old Source (A	rmy FM 34-81-1, Battle	field Weather	Effects 199	21:				Chai	nged Fu	Il Impact?	Y
<u></u>	/ 34-81-1, pg. N-3, Dec										
Comments											
Changed Source?	Y	Are T	There Any (2)	) Option	s? Y			Any C	hange to	Record?	Y

			IWED	A Syst	em Kui	es 			
ID # 17 Syste	em Name	!SA-	7 GRAIL!			Rule 1 # 44 R	ule 2 #	Delete Rule?	N
Old Color 1	New Color 1					Cha	anged Color?	N	
Parameter 1 #	26 Old Param. 1 ID	visibili	ty	New Par	am. 1 ID	Visibility	C	hanged Param. 1	? N
Parameter 2 #	Old Param. 2 ID			New Par	am. 2 ID		C	hanged Param. 2	?
Old Value 1	2500		New Va	alue 1		2500 ft.	Cha	anged Value1?	N
Old Value 2			New Va	alue 2			Cha	anged Value 2?	
Old Operator 1	< New Opt. 1	< Cha	nged Opt. 1	? N	Old Opt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Reduced	Visibility	New C	ondensed t	ı	Low Visibility		anged Condensed pact?	d Y
Old Full Impact	Visibility less than 2	2500 meters ma	kes it diffic	cult to acc	quire/ident	ify targets.			
New Full Impact	Visibility < 2500 me	ters makes it d	fficult to a	cquire/ide	entify targe	ets.			
Old Source	Army FM 34-81-1, Batt	lefield Weather	Effects 19	1921:			Change	d Full Impact?	Y
<u></u>	M 34-81-1, pg. N-4, De					***************************************			
Comments									
Changed Source	? Y	Are	There Any	(2) Option	s? N		Any Char	nge to Record?	Y
ID # 18 Syste	em Name New Color 1		GHT FLUSH	1!			tule 2 # anged Color?	Delete Rule?	N
Parameter 1 #	14 Old Param. 1 ID	rain		New Par	am. 1 ID	Rain	С	hanged Param. 1	? N
Parameter 2 #	Old Param. 2 ID			New Pa	ram. 2 ID		c	hanged Param. 2	!? 🔃
Old Value 1	1		New V	alue 1		light	Cha	anged Value1?	Y
Old Value 2			New V	alue 2			Cha	anged Value 2?	
Old Operator 1	> New Opt. 1	>= Cha	nged Opt. 1	? Y	Old Opt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Precip		New C	Condensed t	t	Rain		anged Condense pact?	d Y
Old Full Impact	Rain of intensity of	light or greater	degrades	the effect	iveness of	f the radar.			
New Full Impact	Rain of intensity >=	light degrades	the effecti	veness o	f the radar				
Old Source	Army FM 34-81-1, Bat	tlefield Weathe	r Effects 19	9921-			Change	ed Full Impact?	Υ
<u> </u>	FM 34-81-1, pg. N-8, Do			,1		J			
Comments									
Changed Source	9? Y	Are	There Any	(2) Option	ıs? N		Any Cha	nge to Record?	Y

		IWE	DA Sys	tem Rui	es			
ID# 19 Syste	m Name	!THIN SKIN!			Rule 1 # 52	Rule 2#	Delete Rule	? N
Old Color 1	New Color 1				(	Changed C	olor? N	
Parameter 1 #	14 Old Param. 1 ID	rain	New Par	am. 1 ID	Rain		Changed Param.	1? N
Parameter 2 #	Old Param. 2 ID		New Par	am. 2 ID			Changed Param.	
Old Value 1	1	New V			light		Changed Value1?	Y
Old Value 2		⊟ New V	alue 2				Changed Value 2?	
Old Operator 1	> New Opt. 1 >=	Changed Opt.	1? Y	Old Opt. 2	New Opt	. 2	Changed Opt. 23	,
Old Condensed Impact	Precipitation		Condensed	·	Rain		Changed Condense Impact?	L
Old Full Impact	Rain of intensity of light or	greater degrades	the effect	iveness of	the radar.			
New Full Impact	Rain of intensity >= light de	grades the effecti	iveness of	the radar.				
Old Source (A	my FM 34-81-1, Battlefield V	Veather Effects, 1	992):			Cha	anged Full Impact?	Y
<u></u>	34-81-1, pg. N-8, Dec 1992					<u> </u>		
Comments			`		Value -			
Changed Source?	Y	Are There Any	(2) Options	s? N		Any (	Change to Record?	Y
ID# 20 System	n Name	A-10			Rule 1 # 47	Rule 2 #	Delete Rule	? N
Old Color 1	New Color 1				C	hanged Co	olor? N	
Parameter 1 # 2	0ld Param. 1 ID	visibility	New Para	am. 1 ID	Visibility		Changed Param.	1? N
Parameter 2 #	Old Param. 2 ID		New Par	am. 2 ID			Changed Param.	2?
Old Value 1	8000	New Va	alue 1	80	000 meters		Changed Value1?	N
Old Value 2		New Va	alue 2				Changed Value 2?	
Old Operator 1	< New Opt. 1 <	Changed Opt. 1	!? N (	Old Opt. 2	New Opt.	2	Changed Opt. 2?	
Old Condensed Impact	Reduced Visibility	New C	Condensed t		Reduced Visibilit		Changed Condense Impact?	ed N
	Visibility < 5 miles (8000 m) time available to acquire an			ational and	d terrain avoidanc	e capabilit	y which reduces th	е
•	Visibility < 5 miles (8000 m) to acquire and identify targe		igation an	d terrain a	voidance capabili	ty and red	uce the time availa	ble
Old Source (1s	t Cavalry Division, 1992);					Cha	inged Full Impact?	Y
	erview with MAJ Goodwyn, A	A10 Pilot at ACC/E	OOTW We	apon and	Tactics Branch, 1	3 Aug 1997		
Comments								
Changed Source?	Y	Are There Any (	(2) Options	? N		Any C	Change to Record?	Y

							IWEL	DA Sy	stem	Rule	es							
ID # 21 S	ystem	Name				<b>A-</b> 1	0				Rule 1#	48	Rul	e 2 # [		Delete	Rule?	N
Old Color	2	New	Color	1									Chan	nged Co	ior?	Y		
Parameter 1 #	26	Old	Param	. 1 ID[	v	isibility		New P	aram.	1 ID	'	/isibilit	у		Chai	nged Pai	ram. 1?	? N
Parameter 2 #	ŧ	Old	Param	. 2 ID[				New P	aram.	2 ID					Chai	nged Pai	ram. 2?	?
Old Value 1			480	0			New V	alue 1			4800				Chang	ed Valu	e1?	N
Old Value 2							New V	alue 2							Chang	ed Valu	e 2?	
Old Operator	1	<	New O	ot. 1	<	Change	ed Opt.	1? N	Old	Opt. 2		lew Opt	t. 2		Cha	inged O	pt. 2?	
Old Condens Impact	ed		Red	uced V	/isibility		New (	Condens t	ed		Reduced	Visibili	ity		Chang Impac	ed Cond t?	densed	N
Old Full Impac					800 m) s ilable to					raft na	vigational	and te	rrain	avoida	nce ca	pability	which	1
New Full Impa			ty < 3 n target		(800 m) c	legrades	terrain	avoida	nce ca	pabilit	y and red	uces tir	me av	vailable	to ac	quire an	ıd	
Old Source	(1st	Caval	ry Divis	ion, 19	992);									Cha	nged F	Full Impa	ict?	Y
New Source/ Reason for Delete	Inte	rview,	MAJ G	oodwy	n A10 Pil	ot ACC/	OOTW	<b>V</b> eapon	s and	Tactics	Branch,	13 Aug	1997	7				
Comments																		
Changed Sou	rce?	Y				Are The	ere Any	(2) Optio	ons?	N				Any C	Change	to Reco	ord?	Y
ID# 22 S	ystem	Name				<b>A-</b> 1	0				Ruie 1#	52	Rul	le 2 # [		Delete	Rule?	N
Old Color	1	New	/ Color	1				_		_			Chan	nged Co	lor?	N		
Parameter 1 #	14	Old	l Param	. 1 ID		rain		New P	aram.	1 ID		Rain			Cha	nged Pai	ram. 1?	? N
Parameter 2 #	<u> </u>	Old	l Param	. 2 ID				New P	aram.	2 ID					Char	nged Pai	ram. 2?	?∐
Old Value 1			1				New V	alue 1			Light				Chang	jed Valu	e1?	Y
Old Value 2	<u> </u>					]	New V		Ļ						_	jed Valu		Щ
Old Operator	1	>	New O	pt. 1	>	Change		1? N	,	Opt. 2		lew Op	t. 2	<u>L</u>		inged Op		
Old Condens Impact	ed '		F	recipit	ation		New (	Condens t	ed		Ra	ain			Chang Impac	ed Cond t?	densed	Y
Old Full Impac	ct	Rain >	light in	tensity	degrade	s the pil	ots visı	ial and i	infrare	d dete	ction rang	jes.						
New Full Impa	act I	Rain >	light in	tensity	degrade	s the pi	ots visi	ual and i	infrare	d dete	ction rang	jes.						
Old Source	(1st	Caval	ry Divi:	sion. 1	992):									Cha	inged I	Full Impa	act?	N
New Source/ Reason for Delete						lot ACC/	DOTW	Weapon	s and	Tactics	s Branch,	13 Aug	1997	7				
Comments																	-	
Changed Sou	rce?	Y				Are Th	ere Any	(2) Option	ons?	N	]			Any (	Change	to Reco	ord?	Υ

## **IWEDA System Rules** ID# 23 A-10 System Name Rule 1# 54 Rule 2# Delete Rule? N Old Color 2 **Changed Color?** Υ **New Color** Parameter 1 # Old Param. 1 ID rain New Param. 1 ID Rain Changed Param. 1? N Old Param. 2 ID Parameter 2 # New Param. 2 ID Changed Param. 27 Moderate Old Value 1 2 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Old Opt. 2 Old Operator 1 New Opt. 1 N New Opt. 2 Changed Opt. 2? Old Condensed Precipitation **New Condensed** Changed Condensed Y Rain Impact Impact Impact? Old Full Impact Rain > moderate intensity significantly degrades the pilots visual and infrared detection ranges. Rain > moderate intensity significantly degrades the pilots visual and infrared detection ranges. New Full Impact Changed Full Impact? N Old Source (1st Cavalry Division, 1992); Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997 New Source/ Reason for Delete Comments Y Changed Source? Υ Are There Any (2) Options? Ν Any Change to Record? A-10 Rule 1# 56 Rule 2# Delete Rule? ID# 24 System Name Changed Color? Υ Old Color **New Color** Changed Param. 1? Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Freezing Rain Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 0 New Value 1 Moderate Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Freezing Rain New Condensed Heavy Freezing Rain Changed Condensed Impact Impact? Impact Old Full Impact Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. New Full Impact Freezing rain > moderate delays mission launch because exposed aircraft must be deiced. Changed Full Impact? Y Old Source (1st Cavalry Division, 1992); New Source/ Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997 Reason for Delete Comments Υ N Y Changed Source? Are There Any (2) Options? Any Change to Record?

					WED	A Sy	stem	Rui	es					
ID # 25 Sys	tem N	ame		A-10					Rule 1#	59	Rule 2 #	ŧ	Delete Rule?	Y
Old Color 2	2	New Color								(	Changed	Color?		
Parameter 1 #	17	Old Param. 1 ID		snow		New P	aram.	1 ID		Snow		Cha	nged Param. 1	?
Parameter 2 #		Old Param. 2 ID				New P	aram. :	2 ID				Cha	nged Param. 2	?
Old Value 1		1		1	New Va	lue 1						Chan	ged Value1?	
Old Value 2				1	New Va	lue 2						Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1		Changed	Opt. 1	?	Old	Opt. 2	N	lew Opt	i. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Sno	ow .		New C	ondens	ed					Chan	ged Condense xt?	d $\Box$
Old Full Impact	Sn	ow > light intens	ity signific	antly deg	rades t	the pilo	ts visu	ial an	d infrared	detectio	on range	ş.		
New Full Impact														
Old Source	(1et C	avalry Division, 1	992).								C	hanged	Full Impact?	
New Source/	`	Rule: Interview,		dwyn A10	Pilot A	ACC/DC	TW W	eapor	ns and Tac	tics Bra	anch, 13	Aug 199	7. Replaced by	/
Comments														
Changed Source	?	Y		Are There	e Any (	2) Optio	ons?	N			An	y Chang	e to Record?	Y
ID # 26 Sys	stem N	ame		A-10					Rule 1#	60	Rule 2	#	Delete Rule?	N
Old Color 1	I	New Color 1									Changed	Color?	N	
Parameter 1 #	17	Old Param. 1 ID		snow		New P	aram.	1 ID		Snow		Cha	inged Param. 1	? N
Parameter 2 #		Old Param. 2 ID				New P	aram.	2 ID				Cha	inged Param. 2	??
Old Value 1		0		1	New Va	alue 1			Moderate			Chan	ged Value1?	Y
Old Value 2				יו [	New Va	alue 2						Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1	>	Changed	Opt. 1	? N	Old	Opt. 2	1	lew Opt	t. 2	Ch	anged Opt. 2?	
Old Condensed Impact	i	Sno	ow	1	New C	ondens	ed		Heavy	Snow		Chan	ged Condense ct?	d Y
Old Full Impact	An	y occurrence of	snowfall d	legrades t	he pilo	ts visu	al and	infrar	ed detection	on rang	es.	<u>-</u>		
New Full Impact	t Sn	owfall > moderat	e degrade	es the pilot	ts visu	al and	infrare	d dete	ection rang	jes.				
Old Source	(1st C	avalry Division,	1992):						]		(	Changed	Full Impact?	Y
		iew, MAJ Goodw		lot ACC/D	отw v	Veapon	s and	Tactio	s Branch,	13 Aug	1997.			
Comments														
Changed Source	e?	Y		Are Ther	e Any	(2) Opti	ons?	N	1		Ar	ny Chang	e to Record?	Υ

	·				IWE	DA Sy	sten	ı Rul	es							
iD # 27 Sys	stem Nan	ne		A-	10				Rule 1#	63	Ruk	e 2 # [		Delete R	ule?	Y
Old Color 2	2 Ne	ew Color									Chan	ged Co	olor?			
Parameter 1 #	21 C	ld Param. 1 ID	surfac	ewinds	peed	New f	aram.	1 ID		-			Cha	nged Para	m. 1?	
Parameter 2 #	0	ld Param. 2 ID				New f	Param.	2 ID					Cha	nged Para	m. 2?	
Old Value 1		30		]	New V	/alue 1							_ Chan	ged Value1	?	
Old Value 2				Ī	New V	/alue 2							Chang	ged Value :	2?	Г
Old Operator 1	>=	New Opt. 1		Chang	ed Opt.	1?	Old	Opt. 2		New Op	t. 2		Cha	anged Opt.	2?	Ī
Old Condensed Impact	!	Surface	Wind	-	New o	Condens	sed						Chang Impac	ged Conde at?	nsed	
Old Full Impact	Surfa	ce wind > 30 kt	s signific	antly in	creases	the im	oact er	rors fo	r freefall	munitio	ns.					
New Full Impact																
Old Source	(1et Cave	alry Division, 1	0021.		<del></del>			<del></del>				Cha	nged I	Full Impact	?	
<u> </u>		ule: Not Applic		rview, N	MAJ God	odwyn A	10 Pil	ot ACC	:/DOTW V	Veapons	s and	Tactic	s Brar	nch, 13 Au	g 199	7.
Comments														, , , , , , , , , , , , , , , , , , , ,		
Changed Source	e? Y			Are Th	ere Any	(2) Opti	ons?	N				Any C	Change	e to Record	?	Y
ID # 28 Syst	tem Nam	e		A-	10				Rule 1#	67	Rule	2#		Delete R	ıle?	Y
Old Color 1	Ne	w Color							•		Chan	ged Co	lor?			
Parameter 1 #	21 0	ld Param. 1 ID	surfac	ewinds	peed	New F	aram.	1 ID					Chai	nged Parar	n. 1?	
Parameter 2 #	o	ld Param. 2 ID				New F	aram.	2 ID					Cha	nged Parar	n. 2?	
Old Value 1		20			New V	alue 1							Chang	ged Value1	?	
Old Value 2					New V	alue 2							Chang	ged Value 2	??	
Old Operator 1	>=	New Opt. 1		Chang	ed Opt.	1?	Old	Opt. 2		New Op	t. 2		Cha	anged Opt.	2?	
Old Condensed Impact		Surface	Wind		New (	Condens	ed						- Chang Impac	ged Condei t?	nsed	
Old Full Impact	1	ce wind > 20 kt	s cause f	reefall r	nunition	impa	ct poin	ts to b	e manual	ly comp	uted	and re	leased	d with asse	ociate	ed :
New Full Impact												Cha	nged F	Full Impact	2	
Old Source (	1st Cava	ılry Division, 19	992);						<u>.</u>			Olid	ngeu r	Full Impact	•	
تا ا	·	ule: Not Applica		rview, N	1AJ God	odwyn A	10 Pile	ot ACC	/DOTW V	/eapons	s and	Tactic	s Bran	nch, 13 Au	g 199	7.
Comments																
Changed Source	? <b>Y</b>	]		Are Th	ere Any	(2) Option	ons?	N			<del></del>	Any C	hange	to Record	?	Y

### **IWEDA System Rules** ID# 29 System Name A-10 Rule 1 # 100 Rule 2 # 100 Delete Rule? **Changed Color?** N Old Color **New Color** Old Param. 1 ID cloudcover New Param, 1 ID **Cloud Cover** Changed Param. 1? N Parameter 1 # Old Param. 2 ID cloudbase New Param. 2 ID Cloud Base Changed Param. 2? Parameter 2 # 3 3 New Value 1 3/8 Coverage Changed Value1? Old Value 1 Old Value 2 3000 New Value 2 3000 Ft. Changed Value 2? Ν Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? N Clouds **New Condensed Low Clouds** Changed Condensed Old Condensed Impact Impact? Impact Cloud cover > 3/8 and cloud bases < 3000 ft degrade attack options and maneuverability. Attacks become Old Full Impact predictable by restricting aircraft to cloud free corridors. Cloud cover > 3/8 and cloud bases < 3000 ft degrade attack options and maneuvering may become predictable. New Full Impact Y Changed Full Impact? (1st Cavalry Division, 1992); Old Source Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997. New Source/ Reason for Delete Comments Y Υ Are There Any (2) Options? Any Change to Record? Changed Source? Υ Delete Rule? Y A-10 Rule 1 # 101 Rule 2 # 101 ID# 30 System Name Changed Color? Old Color New Color Old Param. 1 ID cloudcover New Param. 1 ID Changed Param. 1? Parameter 1 # 4 Changed Param. 2? Old Param. 2 ID cloudbase New Param. 2 ID Parameter 2 # 3 5 New Value 1 Changed Value 1? Old Value 1 Changed Value 2? 1000 New Value 2 Old Value 2 Changed Opt. 2? Changed Opt. 1? Old Opt. 2 New Opt. 2 New Opt. 1 Old Operator 1 Changed Condensed Old Condensed Clouds **New Condensed** Impact Impact Impact? Cloud cover > 5/8 and cloud bases < 1000 ft significantly degrade visual attacks and maneuverability. Attacks Old Full Impact become predictable by restricting aircraft to cloud free corridors. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: Not Significant. Interview, MAJ Goodwyn A10 Pilot ACC/DOTW Weapons and Tactics Branch, 13 Aug 1997. New Source/ Reason for Delete Comments Y Υ Any Change to Record? Υ Are There Any (2) Options? Changed Source?

			IWEDA	Syste	n Rui	es					
ID# 31 Syste	em Name	AH	-1F			Rule 1#	7	Rule 2#		Delete Rule	? N
Old Color 1	New Color 1						(	Changed C	olor?	N	
Parameter 1 #	22 Old Param. 1 ID	temperatui	e N	lew Paran	. 1 ID	Ten	nperatu	ıre	Cha	inged Param.	1? N
Parameter 2 #	Old Param. 2 ID		N	lew Paran	. 2 ID				Cha	anged Param. 2	2?
Old Value 1	-25		New Valu	e 1		- 25 F			Chan	ged Value1?	N
Old Value 2			New Valu	e 2					Chan	ged Value 2?	
Old Operator 1	<= New Opt. 1	<= Change	ed Opt. 1?	N O	Opt. 2	N-	ew Opt	. 2	Ch	anged Opt. 2?	
Old Condensed Impact	Cold	l	New Cor Impact	ndensed		Extreme	Cold		Chan	ged Condense ot?	d Y
Old Full Impact	Surface temperatures	s <= -25 F may ca	ause the g	rease on t	he mair	or tail roto	r shaft	s to cong	eal.		
New Full Impact	Surface temperatures missions.	s <= -25 F may ca	ause the cı	ew to ren	ove ela	stomeric s <sub>i</sub>	oring p	rior to ope	eration	and may dela	ıy
Old Source (1s	st Cavalry Division, 19	92);						Ch	anged	Full Impact?	Υ
New Source/ Reason for Delete	/ł 55-1520-236-10, Para	8-46.1, Aug 199	4								
Comments											==
Changed Source?	Y	Are The	ere Any (2)	Options?	N	]		Any	Change	e to Record?	Y
ID# 32 System	m Name	AH-	1F			Rule 1#	24	Rule 2 #		Delete Rule?	N
Old Color 1	New Color 1						C	Changed C	olor?	N	
Parameter 1 #	22 Old Param. 1 ID	temperatur	e N	ew Param	. 1 ID	Tem	peratu	re	Cha	nged Param. 1	? N
Parameter 2 #	Old Param. 2 ID		N	ew Param	. 2 ID				Cha	nged Param. 2	.?
Old Value 1	100		New Value	e 1		100 F			Chang	ged Value1?	N
Old Value 2			New Value	e 2					Chang	ged Value 2?	
Old Operator 1	>= New Opt. 1	>= Change	ed Opt. 1?	N Oid	Opt. 2	Ne	w Opt.	2	Cha	anged Opt. 2?	
Old Condensed Impact	Hot		New Con Impact	densed		Very l	Hot		Chang Impac	ged Condensed t?	Y
Old Full Impact	Temperatures >= 100	F degrade aircra	ft perform	ance.							
New Full Impact	Temperatures >= 100	F degrade aircra	ift perform	ance.							
Old Source (1s	st Cavalry Division, 19	92);						Chi	anged I	Full Impact?	N
New Source/ Reason for Delete	1 55-1520-236-10, Chap	eter 7, Sep 1996									
Comments											$\overline{}$
Changed Source?	Y	Are The	ere Any (2)	Options?	N			Any (	Change	to Record?	Y

					IWEL	DA Sy	stem	Rule	es							_
ID# 33	Syst	tem Nan	ne		AH-1F				Rule 1#	32	Rule 2	2#		Delete Rule	? [	1
Old Color	2	Ne	ew Color	1							Change	ed Color?	· [	Y		
Parameter	1#	<b>23</b> C	id Param. 1 ID	thu	nderstorm	New P	aram. 1	1 ID	Thu	nderst	orm	CI	hange	ed Param.	1?[	١
Parameter	2#	c	old Param. 2 ID			New P	aram. 2	2 ID				CI	hange	ed Param.	2?	
Old Value	1		1		New V	alue 1			yes			Cha	anged	d Value1?	[	Y
Old Value	2				New V	alue 2						Cha	angeo	d Value 2?		
Old Opera	tor 1	=	New Opt. 1	=	Changed Opt.	1? N	Old C	Opt. 2	N	lew Opt	t. 2		Chang	ged Opt. 21	? [	
Old Conde Impact	ensed		Thund	erstorm	New 0	Condens t	ed		Thunde	erstorm	)	1	anged	d Condens	ed [	N
Old Full Im	pact	Any o	occurrence of	thunderst	orms curtail airc	raft and	l refuel	ling op	perations o	due to s	safely c	onsider	ation	s.		
New Full In	npact				orms curtail airc pided, causing d		i refuel	ling op	perations (	due to s	safety o	onsider	ation	s. Flights	in	
Old Source	. [	1st Cav	alry Division,	1992\								Change	d Ful	II Impact?	_	Υ
New Source Reason for Delete	e/ 1	ΓM 55-1	520-236-10, Para 5-2d(3),	ara 8-50, A	ug 1994											
Comments																
Changed S	ource	? Y			Are There Any	(2) Optio	ons?	N			,	Any Char	nge to	Record?	7	Y
ID # 34 Old Color	Syst	tem Nan		1	AH-1F				Rule 1 #	33	Rule :	2 #ed Color?		Delete Rule	? [	٧
Parameter	1#	11 (	old Param. 1 II	)	hail	New P	Param.	1 ID		Hail		С	hang	ed Param.	1?[	N
Parameter	2#		old Param. 2 II	)		New P	aram. 2	2 ID				C	hang	ed Param.	2?	
Old Value	1		1		New V	alue 1			yes			Cha	anged	d Value1?	[	Y
Old Value	2				New V	alue 2						Cha	anged	d Value 2?		
Old Opera	ator 1	=	New Opt. 1	=	Changed Opt.	1? N	Old	Opt. 2	N	New Op	t. 2		Chang	ged Opt. 2	?	
Old Conde Impact	ensed		ŀ	ail	New (	Condens ct	sed		H	ail		-	anged	d Condens	ed [	N
Old Full Im	pact	Any	occurrence of	hail produ	ices hazardous	weather	r condi	tions a	and reduc	es opei	rational	capabil	ites.		,	
New Full Ir	mpact	Any	occurrence of	hail produ	uces hazardous	weather	r condi	tions a	and reduc	es opei	rational	capabil	ites.			
Old Source	<u>.</u> [7	(1st Cav	alry Division,	1992).								Change	d Fu	Il Impact?		N
New Source Reason for Delete	;e/ [		0, Para 12-7, \$													
Comments	3															
Changed S	Source	?	<u>'</u>		Are There Any	(2) Opti	ons?	N			-	Any Chai	nge to	o Record?		Υ

### **IWEDA System Rules** ID# 35 System Name AH-1F Rule 1# Delete Rule? 56 Rule 2# Old Color 2 **New Color** Y Changed Color? Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Freezing Rain Changed Param. 1? N Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 New Value 1 None Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 Changed Opt. 1? N Old Opt. 2 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Condensed Freezing Rain **New Condensed** Changed Condensed N Freezing Rain Impact Impact Impact? Old Full Impact Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. New Full Impact Changed Full Impact? N Old Source (1st Cavalry Division, 1992); TM 55-1520-236-10, Para 8-47a, Aug 1994 New Source/ Reason for Delete Comments Note: Delays-not cancels 1 versus 2 Changed Source? Are There Any (2) Options? N Y Υ Any Change to Record? AH-1F ID# 36 System Name Rule 1# 60 Rule 2# Delete Rule? N Old Color New Color Changed Color? Ν 17 Old Param. 1 ID New Param. 1 ID Changed Param. 1? N Parameter 1 # snow Snow Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? 0 None Υ Old Value 1 New Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 Old Condensed Snow **New Condensed** Snow Changed Condensed N Impact Impact Any occurrence of snowfall produces hazardous weather conditions and reduces operational capabilities. Old Full Impact Any occurrence of snowfall produces hazardous weather conditions, reduces visibility and makes hovering and New Full Impact landing difficult. Y Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ TM 55-1520-236-10, Para 8-47, Aug 1994 Reason for Delete Comments Changed Source? N Y Y Are There Any (2) Options? Any Change to Record?

						IWE	DA Sy	stem	Rul	es							
ID # 37	Syste	m Name	<b>.</b>		AH-	-1F				Rule 1#	61	Rule	e 2 # [		Delete R	ule?	N
Old Color	1	Nev	w Color	1								Chan	ged Co	olor?	N		
Parameter 1	#	2 Ol	d Param. 1	ID b	lowingsno	w	New P	aram. 1		Blov	wing Sı	now		Cha	nged Para	m. 1?	N
Parameter 2	# [	Ok	d Param. 2	ID			New P	aram. 2	מו :					Cha	nged Para	m. 2?	
Old Value 1			1			New V	alue 1			Yes				Chang	ged Value	1?	Y
Old Value 2	2					New V	alue 2							Chang	ged Value	2?	
Old Operato	or 1 [	=	New Opt.	1 =	Change	ed Opt.	1? N	Old O	pt. 2	N	lew Opt	t. 2		Cha	anged Opt	. 2?	
Old Conden Impact	nsed		Blow	ring Snow		New (	Condens ct	ed		Blowing	g Snow	,		Chang Impac	ged Conde t?	nsed	N
Old Full Impa	act	Any o	currence	of blowing	snow red	uces vis	sibility a	nd will	make	hovering	and lar	nding	diffici	ult.		********	
New Full Imp	pact	Any o	currence	of blowing	snow red	uces vis	sibility a	nd will	make	hovering	and lar	nding	diffic	ult.			
Old Source	(1:	st Cava	Iry Divisio	n, 1992);									Cha	inged l	Full Impac	t?	N
New Source Reason for Delete	/ T	A 55-15	20-236-10,	Para 8-77,	Aug 1994												
Comments																	
Changed So	ource?	Y			Are Th	ere Any	(2) Option	ons?	N				Any C	Change	to Record	±?	Y
ID # 38	Syste	m Name	е		AH	-1F				Rule 1#	62	Rule	e 2 # [		Delete R	lule?	N
Old Color [	1	Nev	w Color	1								Chan	ged Co	olor?	N		
Parameter 1	#	1 0	d Param. 1	ID b	lowingsar	nd	New P	aram. 1	ID[	Blo	wing S	and		Cha	nged Para	.m. 1?	N
Parameter 2	2#	01	d Param. 2	ID			New P	aram. 2						Cha	nged Para	.m. 2?	
Old Value 1	1		1			New V	alue 1			Yes				Chang	ged Value	1?	Y
Old Value 2	2						alue 2							Chang	ged Value	2?	
Old Operato	or 1 [	=	New Opt.	1 =	Chang	ed Opt.	1? N	Old O	pt. 2	<b>N</b>	lew Op	t. 2		Cha	anged Opt	. 2?	
Old Conder Impact	nsed		Blov	ving Sand		New 6	Condens ct	ed		Blowin	g Sand	l		Chang Impac	ged Conde xt?	nsed	N
Old Full Imp	act	Any o	ccurrence	of blowing	sand red	uces vis	ibility a	nd will	make	hovering	and lan	nding	difficu	ılt.			
New Full Imp	pact	Any o	ccurrence	of blowing	sand red	uces vis	ibility a	nd will	make	hovering	and lar	nding	difficu	ılt.			
Old Source	(1	st Cava	ılry Divisio	n, 1992);									Cha	anged	Full Impac	t?	N
New Source Reason for Delete	- 1			Para 8-79, , 2-6, Feb 1													
Comments																	
Changed So	ource?	Υ			Are Th	ere Any	(2) Opti	ons?	N				Any (	Chang	e to Recor	d?	Y

<b></b>				IW	EDA Sy	stem Ru	ıles				
ID # 39 Sys	stem Nam	е		AH-1F			Rule 1#	<b>63</b> Rt	ıle 2 #	Delete Rule	? N
Old Color 2	2 Ne	w Color 2						Cha	nged Color?	N	
Parameter 1 #	21 0	ld Param. 1 ID	surfac	ewindspeed	New F	Param. 1 ID	Surfac	e Wind Spe	ed Cha	anged Param. 1	1? N
Parameter 2 #	0	ld Param. 2 ID			New F	Param. 2 ID		•	Cha	anged Param. 2	2? 🗌
Old Value 1		30		New	v Value 1		30 kts.		Chan	ged Value1?	N
Old Value 2				New	Value 2				Chan	ged Value 2?	
Old Operator 1	>=	New Opt. 1	>	Changed Op	ot. 1? Y	Old Opt. 2	2 N	lew Opt. 2	Ch	anged Opt. 2?	
Old Condensed Impact	i	Surface	Wind	l l	w Condens pact	sed	Surface	Wind	Chan Impa	ged Condense ct?	d N
Old Full Impact	Surfac	e wind speed	> 30 kts d	uring engine	start/shu	tdown may	cause the re	otor blades	to contact t	he fuselage.	
New Full Impact	Helico	pter should n	ot be start	ed in surface	e winds >	30 kts.				4 4 4 4	
Old Source	(1st Cava	lry Division, 1	992);						Changed	Full Impact?	Y
L		20-236-10, Par		p 1996							
Comments											
Changed Source	9? Y			Are There Ar	ny (2) Optio	ons? [	N		Any Chang	e to Record?	Y
ID # 40 Sys	tem Nam	e		AH-1F			Rule 1 #	<b>67</b> Ru	le 2 #	Delete Rule?	Y
Old Color 1	Ne	w Color			·			Chai	nged Color?		
Parameter 1 #	<b>21</b> OI	d Param. 1 ID	surface	ewindspeed	New F	aram. 1 ID			Cha	nged Param. 1	?
Parameter 2 #	OI	d Param. 2 ID[			New F	aram. 2 ID			Cha	nged Param. 2	!? 🔙
Old Value 1		20		New	Value 1				Chan	ged Value1?	
Old Value 2				New	Value 2				Chan	ged Value 2?	
Old Operator 1	>=	New Opt. 1		Changed Op	t. 1?	Old Opt. 2	2 N	ew Opt. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Surface	Wind		w Condens act	ed			Chan Impa	ged Condensed at?	t
Old Full Impact	Surfac	e wind speed	> 20 kts ir	npacts the a	bility to st	art and shu	t down aircr	aft.			
New Full Impact											
Old Source	1st Cava	lry Division, 1	992);				7		Changed	Full Impact?	
		lle: Not siginif		ced by rule l	D# 39						
Comments											
Changed Source	? Y			Are There Ar	ny (2) Optio	ons?	N		Any Change	e to Record?	Y

			IWED	A Sys	stem Ru	ıles				
ID# 41 Syster	m Name		AH-1F			Rule 1#	75 Ru	le 2 #	Delete Rule	? Y
Old Color 2	New Color						Cha	nged Color?		
Parameter 1 # 2	Old Param. 1 ID	surfa	cewindgust	New Pa	aram. 1 ID			CI	nanged Param.	1?
Parameter 2 #	Old Param. 2 ID			New Pa	aram. 2 ID			CI	nanged Param.	2?
Old Value 1	30		New Va	alue 1				Cha	inged Value1?	
Old Value 2			New V	alue 2				Cha	inged Value 2?	
Old Operator 1	>= New Opt. 1		Changed Opt. 1	l?	Old Opt.	2	New Opt. 2	c	hanged Opt. 2?	, <u> </u>
Old Condensed Impact	Gu	st	New C	Condense t	ed				inged Condense act?	ed
Old Full Impact	Surface wind gust >	= 30 kts e	xceeds the syst	em limit	s to start	engines.				
New Full Impact										
Old Source (1s	t Cavalry Division, 1	992):						Change	d Full Impact?	
	lete Rule, Redundar		D# 39							
Comments										
Changed Source?	Y		Are There Any	(2) Optio	ns?	N		Any Chan	ge to Record?	Y
ID # 42 System	m Name		AH-1F			Rule 1#	76 Ru	ile 2 #	Delete Rule	? N
Old Color 1	New Color 1						Cha	nged Color?	N	
Parameter 1 #	12 Old Param. 1 ID	icin	gintensity	New Pa	aram. 1 ID	lci	ng Intensity	CI	hanged Param.	1? N
Parameter 2 #	Old Param. 2 ID			New Pa	aram. 2 ID			CI	hanged Param.	2?
Old Value 1	0		New V	alue 1		None		Cha	anged Value1?	Y
Old Value 2			New V	alue 2				Cha	anged Value 2?	
Old Operator 1	> New Opt. 1	>	Changed Opt.	1? N	Old Opt.	2	New Opt. 2		Changed Opt. 2?	·
Old Condensed Impact	lcing	Aloft	New (	Condense t	ed	lcin	g Aloft		anged Condense act?	ed N
Old Full Impact	Upper level icing in	tensity > ı	none may degra	de perfo	rmance.					
New Full Impact	Upper-level icing ir icing tops) feet AG		none may degra	de perfo	ormance if	the aircraft	is flying be			
Old Source (1s	st Cavalry Division,	1992):				$\neg$		Change	d Full Impact?	Υ
<u></u>	/ 55-1520-236-10, Pa		d 8-81 see seco	nd paraç	graph of c	aution, Aug	1994			
Comments										
Changed Source?	Υ		Are There Any	(2) Optio	ons? [	N		Any Char	nge to Record?	Υ

			IWED	DA Sy	stem Ru	les					
ID# 43 Syst	em Name	AH	l-1F			Rule 1#	77 R	lule 2#	Del	ete Rule?	N
Old Color 2	New Color 2						Ch	anged Col	or? N		
Parameter 1 #	12 Old Param. 1 ID	icingintens	ity	New P	aram. 1 ID	lcin	g Intensit	7	Changed	Param. 1?	N
Parameter 2 #	Old Param. 2 ID			New P	aram. 2 ID				Changed	Param. 2?	· 🗀
Old Value 1	1		New V	alue 1		Light		7 (	Changed V	alue1?	Y
Old Value 2			New V	alue 2				Ī (	Changed V	alue 2?	
Old Operator 1	> New Opt. 1	> Chang	jed Opt. 1	l? N	Old Opt. 2	N	lew Opt. 2		Changed	I Opt. 2?	
Old Condensed Impact	lcing .	Aloft	New C Impac	Condense t	ed	lcing	Aloft	I	Changed Compact?	ondensed	N
Old Full Impact	IAW AR95-1, aircraf	t cannot fly into a	reas of i	cing into	ensity > lig	ht.					
New Full Impact	Intentional flight int deicing or anti-icing								d with ade	quate	
au a						1		Char	nged Full In	npact?	Y
	Ist Cavalry Division, 1										<del></del> -,
New Source/ A Reason for Delete	.R 95-1, Para 5-2d(1), I	Лау 1990									
Comments											司
Changed Source?	? [Ÿ]	Aro Th	ere Any (	(2) Optio	ns? N			Any Cl	nange to Re		Y
ID # 44 Syste	em Name New Color 1	AH	-11-			Rule 1#		ule 2 # anged Cold		ete Rule?	N
Parameter 1 #	24 Old Param. 1 ID	turbulenceinte	nsity	New Pa	ıram. 1 ID	Turbule	nce Inten		Changed F	Param 12	N
Parameter 2 #	Old Param. 2 ID	tarbaichte			ıram. 1 ID ıram. 2 ID	Tarbare		Sity	Changed F		
Old Value 1	1		New Va			Light			Changed Va		Y
Old Value 2			New Va	l				J 1	hanged Va		H
Old Operator 1	> New Opt. 1	> Change	ed Opt. 1	'	Old Opt. 2	No.	ew Opt. 2	,	Changed		H
Old Condensed	Turbulen		New C	ondense		Turbulen			hanged Co		N
Impact Old Full Impact	Upper-level turbuler	ice > light intensi	Impact ty degrae		g safety.				mpact?		
								<del></del>			=
New Full Impact	Upper-level turbulen and (~ turbulence to		ty degra	des flyin	ig safety if	tne aircraft	is flying b	etween (~	- turbolend	ce base)	
Old Source (1	st Cavalry Division, 1	992);						Chan	ged Full Im	pact?	Υ
New Source/ Reason for Delete	M 55-1520-236-10, Par	a 8-50, Aug 1994									
Comments											司
Changed Source?	Y	Are Th	ere Any (	2) Option	ns? N	]		Any Ch	ange to Re	cord?	Y

### **IWEDA System Rules** AH-1F Delete Rule? Rule 1# 80 Rule 2# ID# 45 System Name 2 Changed Color? N **New Color** Old Color Parameter 1 # 24 Old Param. 1 ID turbulenceintensity New Param. 1 ID **Turbulence Intensity** Changed Param. 1? Changed Param. 2? New Param. 2 ID Parameter 2 # Old Param. 2 ID Moderate 2 New Value 1 Changed Value1? Old Value 1 New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Old Condensed **Severe Turbulence Aloft Changed Condensed Turbulence Aloft New Condensed** Impact? Impact Impact Upper-level turbulence > moderate intensity exceeds the operating limits. Old Full Impact Aircraft will not be intentionally flown into forecast severe turbulence if flight level is between (~ turbulence base) New Full Impact and (~ turbulence tops). Υ Changed Full Impact? Old Source (1st Cavalry Division, 1992); AR 95-1, Para 5-2d(2), May 1990 New Source/ Reason for Delete Comments Υ Ν Any Change to Record? Changed Source? Υ Are There Any (2) Options? Delete Rule? N AH-1F Rule 1# 85 Rule 2# ID# 46 System Name N **New Color** Changed Color? Old Color Changed Param. 1? N Pressure Altitude Parameter 1 # Old Param. 1 ID pressurealtitude New Param. 1 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID N 5000 ft. Changed Value1? Old Value 1 5000 New Value 1 Changed Value 2? New Value 2 Old Value 2 Changed Opt. 1? New Opt. 1 N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 **High Pressure Altitude** Changed Condensed **New Condensed** Old Condensed Pressure Altitude Impact? Impact **Impact** Operating performance of rotary wing aircraft is decreased when operating at pressure altitudes > 5000 ft. Old Full Impact Operating performance of rotary wing aircraft is decreased when operating at pressure altitudes > 5000 ft. New Full Impact N Changed Full Impact? **Old Source** (1st Cavalry Division, 1992); New Source/ TM 55-1520-236-10, Chapter 7, Sep 1996 FM 1-230, Para 5-8, Sep 1982 Reason for Delete Comments Y N Any Change to Record? Changed Source? Y Are There Any (2) Options?

						IWE	DA Sy	stem	Rui	es						
ID# 47 S	System	Name			AH-	1F				Rule 1#	86	Rule	2#		Delete Rule	e? Y
Old Color	2	New Col	or									Chang	ed Col	lor?		
Parameter 1 #	<b>#</b> 13	Old Para	m. 1 ID	pres	surealtit	ude	New F	Param. 1	I ID					Char	nged Param.	1?
Parameter 2 #	#	Old Para	ım. 2 ID				New F	Param. 2	2 ID					Char	nged Param.	2?
Old Value 1			000		1	New V	_ /alue 1						(	Chang	ed Value1?	
Old Value 2					ĺ	New V	/alue 2							Chang	ed Value 2?	
Old Operator	1	> New	Opt. 1		Change	ed Opt.	1?	Old C	pt. 2	N	lew Op	t. 2	<del></del>	Cha	nged Opt. 2	?
Old Condens Impact	sed [	Р	ressure /	Altitude		New o	Condens ct	sed						, Chang Impacl	ed Condens	ed
Old Full Impa										reased whetain lift ca			at pre	ssure	altitudes >	
New Full Impa	act				·											
Old Savesa	[1]	2I Di	daine 40	1021.									Char	nged F	full Impact?	
Old Source  New Source/ Reason for Delete		Cavalry Di			re. Pilot l	has opt	ions. De	elete as	a red	condition	. It is ir	nclude	in ye	ellow	condition (>	5000
Comments								.,								
Changed Sou	rce?	Y			Are The	ere Any	(2) Option	ons?	N			,	Any Cl	hange	to Record?	Y
ID# 48 S	ystem i	Name			AH-	18				Rule 1 #	7	Rule	2#		Delete Ruie	? Y
Old Color	1	New Cold	r				_		,		(	Change	ed Col			
Parameter 1 #	22	Old Para	m. 1 ID	ten	peratur	9	New P	aram. 1	ID_					Chan	ged Param.	1?
Parameter 2 #	<u> </u>	Old Para	m. 2 ID				New P	aram. 2	ID_					Chan	ged Param.	2?
Old Value 1		•	25			New V	alue 1						C	Change	ed Value1?	
Old Value 2						New V								Change	ed Value 2?	
Old Operator	1 <	= New	Opt. 1	L	Change	d Opt.	1?	Old O	pt. 2	N	ew Opt	. 2		Cha	nged Opt. 21	, []
Old Condens Impact	L		Cold			Impac		L						mpact	ed Condenso	∌d
Old Full Impac	ct Su	urface tem	perature	s <= <i>-</i> 25 F	may ca	use the	grease	on the	main	or tail rote	or shaft	ts to co	ongea	l.		
New Fuli Impa	ıct															
Old Source	(1st C	Cavalry Div	rision, 19	92);									Chan	iged F	ull Impact?	
New Source/ Reason for Delete	L.	e Rule: No			ory.											
Comments																
Changed Sour	rce?	Y			Are The	re Any	(2) Optic	ons?	N				Any Ch	nange	to Record?	Y

			WEDA Sy	stem Kui	les			
ID # 49 Syste	m Name	AH-1:	S		Rule 1 # 24	Rule 2#	Delete Rule?	? <b>Y</b>
Old Color 1	New Color					Changed Col	or?	
Parameter 1 #	22 Old Param. 1 ID	temperature	New P	aram. 1 ID			Changed Param. 1	1?
Parameter 2 #	Old Param. 2 ID		New P	aram. 2 ID			Changed Param. 2	2?
Old Value 1	100	!	New Value 1				Changed Value1?	
Old Value 2			New Value 2				Changed Value 2?	
Old Operator 1	>= New Opt. 1	Changed	l Opt. 1?	Old Opt. 2	New O	pt. 2	Changed Opt. 2?	
Old Condensed Impact	Hot		New Condens Impact	ed			Changed Condense mpact?	<b>d</b>
Old Full Impact	Temperatures >= 100	F degrade aircraf	t performance	) <b>.</b>				
New Full Impact								
_ <del></del>					1	Char	iged Full Impact?	
ــــــــــــــــــــــــــــــــــــــ	st Cavalry Division, 199							
New Source/ Reason for Delete	elete Rule: No longer in	inventory.						
Comments								
Changed Source?	Y	Ara Thai	e Any (2) Option	ons? N	 ក	Any C	hange to Record?	Y
Old Color 2	em Name New Color	AH-1	S		Rule 1 # 32	Rule 2 # Changed Col	or? Delete Rule	? <b>Y</b>
Parameter 1 #	23 Old Param. 1 ID	thunderstorn	New F	aram. 1 ID			Changed Param.	1?
Parameter 2 #	Old Param. 2 ID	Grander Storin		aram. 2 ID			Changed Param. 2	
Old Value 1	1		New Value 1				Changed Value1?	
Old Value 1			New Value 2				Changed Value 2?	
Old Operator 1	= New Opt. 1		d Opt. 1?	Old Opt. 2	New O		Changed Opt. 2?	H
Old Condensed Impact	Thunders		New Condens	·		F	Changed Condense	·
Old Full Impact	Any occurrence of the	Inderstorms curt	•	d refueling o	perations due to			
·								
New Full Impact								
Old Source (1	st Cavalry Division, 19	921.			1	Cha	nged Full Impact?	
	elete Rule: No longer ir							
Comments								
Changed Source?	? Y	Are The	re Any (2) Opti	ons?	N	Any C	hange to Record?	Y

						IWED	A Sy	sten	n Rul	es						
ID# <b>51</b>	Syste	em Name			AH-	18				Rule 1	# 33	Rule	2#[		Delete R	ule? Y
Old Color	1	New	Color									Chang	ged Co	lor?		
Parameter	1#	11 Old	Param. 1 ID		hail		New F	Param.	1 ID					Char	nged Parar	n. 1? 🔃
Parameter 2	2#	Old	Param. 2 ID		· · · · · · · · · · · · · · · · · · ·		New F	Param.	2 ID					Char	nged Parar	n. 2?
Old Value	1		1			New Va	lue 1							- Chang	ed Value1	?
Old Value	2					New Va	ilue 2							Chang	ed Value 2	2?
Old Operat	tor 1	=	New Opt. 1		Change	ed Opt. 1	?	Old	Opt. 2		New Op	ot. 2		Cha	nged Opt.	2?
Old Conde Impact	nsed		Hai	i		New C Impact	ondens	sed						Chang Impac	ed Conder	ised
Old Full Imp	oact	Any occ	currence of h	ail produ	ces haza	ardous w	veather	cond	itions a	and redu	ces ope	rationa	al capa	bilitie	s.	
New Full Im	npact									***************************************						
Old Source	(1	et Cavalr	y Division, 1	9921-						•			Cha	nged F	ull Impact	?
New Source Reason for Delete	ين ا		e: No longer		ory.											
Comments	F															
Changed So	ource?	Y			Are The	ere Any (	2) Optio	ons?	N	]			Any C	hange	to Record	? <b>Y</b>
ID# 52	Syste	m Name			AH-	15				Rule 1 #	56	Rule	2#		Delete Ru	ıle? Y
Old Color	2	New	Color									Chang	ed Col	or?		
Parameter 1	1#	10 Old	Param. 1 ID	free	zingraiı	1	New P	aram.	1 ID					Chan	ged Paran	n. 1?
Parameter 2	2#	Old	Param. 2 ID				New P	aram.	2 ID					Chan	ged Paran	1. 2?
Old Value	1		0			New Va	lue 1						(	Chang	ed Value11	?
Old Value 2	2					New Va	lue 2						(	Chang	ed Value 2	?
Old Operat	or 1	> 1	New Opt. 1		Change	d Opt. 11	?	Old	Opt. 2		New Op	t. 2		Cha	nged Opt.	2?
Old Conder Impact	nsed		Freezing	Rain		New Co		ed	:					Change Impact	ed Conden ?	sed
Old Full Imp	act	Any occ	currence of fr	eezing ra	in delay	s missio	n laun	ch bed	ause e	exposed	aircraft	must b	e deic	ed.		
New Full Im	pact												- Char			
Old Source	(1:	st Cavair	y Division, 19	992);									Cnar	igea F	ull Impact?	
New Source Reason for Delete	e/ De	elete Rule	e: No longer i	n invento	ry.						,					
Comments																
Changed So	ource?	Y			Are The	ere Any (2	2) Optic	ons?	N				Any Cl	hange	to Record	? Y

		IV	VEDA Sys	stem Kul	es	
ID # 53 Sys	stem Name	AH-1S			Rule 1 # 60 Ru	le 2 # Delete Rule? Y
Old Color C	1 New Color				Char	nged Color?
Parameter 1 #	17 Old Param. 1 ID	snow	New P	aram. 1 ID		Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New P	aram. 2 ID		Changed Param. 2?
Old Value 1	0	Ne	ew Value 1			Changed Value1?
Old Value 2		Ne	ew Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1	Changed (	Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	d Snow	1 '	lew Condens npact	ed		Changed Condensed Impact?
Old Full Impact	Any occurrence of sn	ow produces hazar	dous weathe	er condition	s and reduces operati	onal capabilities.
New Full Impact	4					
Hew I dil impac						
Old Source	(1st Cavalry Division, 19	12).			]	Changed Full Impact?
	Delete Rule: No longer in				<u></u>	
Reason for Delete	belote Naie. No longer ii					
Comments						
Changed Sourc	e? Y	Are There	Any (2) Optic	ons? N		Any Change to Record? Y
ID # 54 Sys	stem Name	AH-1S			Rule 1 # 61 Ru	le 2 # Delete Rule? Y
Old Color	1 New Color				Char	nged Color?
Parameter 1 #	2 Old Param. 1 ID	blowingsnow	New P	aram. 1 ID		Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New P	aram. 2 ID		Changed Param. 2?
Old Value 1	1	N	ew Value 1			Changed Value1?
Old Value 2		N	ew Value 2			Changed Value 2?
Old Operator 1	New Opt. 1	Changed (	Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed	d Blowing \$		lew Condens	ed		Changed Condensed Impact?
Old Full Impact	Any occurrence of ble	owing snow reduce	s visibility a	nd will mak	e hovering and landin	g difficult.
New Full Impac	ot					
	L					Changed Full Impact?
Old Source	(1st Cavalry Division, 19	92);			]	
New Source/ Reason for Delete	Delete Rule: No longer i	n inventory.				
Comments						
Changed Source	ce? Y	Are There	Any (2) Option	ons?	1	Any Change to Record?

# **IWEDA System Rules** ID# 55 AH-1S Rule 1# Rule 2# System Name 62 Delete Rule? Old Color **New Color** Changed Color? blowingsand New Param. 1 ID Parameter 1 # Old Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 New Value 1 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 Changed Opt. 1? Old Opt. 2 New Opt. 1 New Opt. 2 Changed Opt. 2? **New Condensed** Old Condensed **Blowing Sand** Changed Condensed Impact Impact Impact? Old Full Impact Any occurrence of blowing sand reduces visibility and will make hovering and landing difficult. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ Delete Rule: No longer in inventory. Reason for Delete Comments N Υ Changed Source? Υ Are There Any (2) Options? Any Change to Record? 63 AH-1S Υ ID# 56 System Name Rule 1# Rule 2# Delete Rule? 2 Changed Color? Old Color **New Color** surfacewindspeed New Param. 1 ID Parameter 1 # 21 Old Param. 1 ID Changed Param. 1? New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID New Value 1 Old Value 1 30 Changed Value1? New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed **Surface Wind New Condensed** Changed Condensed Impact? Impact Impact Surface wind speed > 30 kts during engine start/shut down may cause the rotor blades to contact the fuselage. Old Full Impact New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: No longer in inventory. New Source/ Reason for Delete Comments Y Y Are There Any (2) Options? N Any Change to Record? Changed Source?

						IWE	DA Sy	sten	n Rule	es						
ID# 57	Syst	em Nam	e		AH-	18				Rule 1#	67	j	e 2 # [		Delete Rule	? Y
Old Color	1	Ne	w Color									Chan	ged Co	olor?		
Parameter	1# [	<b>21</b> OI	d Param. 1 ID	surfac	ewindsp	eed	New I	Param.	1 ID					Char	nged Param.	1?
Parameter:	2# [	01	d Param. 2 ID $igl[$				New I	Param.	2 ID					Char	nged Param.	2?
Old Value	1		20			New \	/alue 1							Chang	ed Value1?	
Old Value	2					New \	/alue 2							Chang	ed Value 2?	
Old Opera	tor 1	>=	New Opt. 1		Change	ed Opt.	1?	Old	Opt. 2	N	New Op	t. 2		Cha	nged Opt. 2?	
Old Conde Impact	ensed		Surface	Wind		New Impa	Conden: ct	sed						Chang Impac	ed Condense t?	ed
Old Full Imp	pact	Surfac	e wind speed	> 20 kts e	exceeds	the abi	ility to s	tart an	d shut	down aire	raft sa	fely.				
New Full In	npact															
Old Source	• [	1st Cava	lry Division, 1	992);	<del></del>								Cha	inged F	full Impact?	
New Source Reason for Delete		Delete Ru	ıle: No longer	in invento	ory.											
Comments	ľ										,					
Changed S	ource	? Y	]		Are The	ere Any	(2) Opt	ions?	N				Any C	Change	to Record?	Y
ID# 58	Syst	tem Nam	е		AH-	18				Rule 1#	75	Rul	e 2 # [		Delete Rule	? Y
Old Color	2	Ne	w Color									Chan	ged Co	olor?		
Parameter	1#	<b>20</b> OI	ld Param. 1 ID	surfa	cewindg	just	New	Param.	1 ID					Char	nged Param.	1? 🔙
Parameter	2#	O	ld Param. 2 ID				New	Param.	2 ID					Char	nged Param.	2?
Old Value	1		30		]	New \	/alue 1							Chang	ed Value1?	
Old Value	2				1	New \	/alue 2							Chang	ed Value 2?	
Old Opera	itor 1	>=	New Opt. 1		Change	ed Opt.	1?	Old	Opt. 2	1	New Op	ot. 2		Cha	inged Opt. 2?	· 🗍
Old Conde	ensed		Gu	st	<u>-</u>	New Impa	Conden ct	sed						Chang Impac	jed Condense t?	ed
Old Full Im	pact	Surfac	ce wind gust >	= 30 kts e	xceeds	the sys	stem lim	its to	start er	igines.						
New Full In	npact															
Old Source	· [	1st Cava	alry Division, 1	992);									Cha	anged F	Full Impact?	
New Source Reason for Delete	- 1	Delete Rı	ule: No longer	in invento	ory.											
Comments				111												
Changed S	Source	? Y			Are Th	ere Any	(2) Opt	ions?	N				Any (	Change	to Record?	Y

				IWED	A Sy	stem R	ules						
ID# 59 Sy	stem Nam	ne		AH-1S			R	ule 1#	77	Rule 2#		Delete Rule	? <b>Y</b>
Old Color	2 Ne	ew Color						·	C	hanged C	olor?		
Parameter 1 #	12 O	ld Param. 1 ID	icin	gintensity	New F	Param. 1 IC	)				Char	nged Param.	1?
Parameter 2 #		ld Param. 2 ID			New F	Param. 2 IC					Char	nged Param. 2	2?
Old Value 1		1		New Va	alue 1						_ Chang	ed Value1?	
Old Value 2				New Va	alue 2					Ŧ	Chang	ed Value 2?	Ī
Old Operator	1 >	New Opt. 1		Changed Opt. 1	?	Old Opt.	2	N	ew Opt.	2	Cha	inged Opt. 2?	$\overline{\Box}$
Old Condense Impact	ed	lcing .	Aloft	New C	ondens	sed					Chang Impac	ed Condense t?	d 🗍
Old Full Impact	IAW	R95-1, aircraf	t cannot fl	y into areas of i	cing in	tensity > li	ght.						
New Full Impac	ct												
										Cha	anged F	Full Impact?	
Old Source	(1st Cava	alry Division, 1	992);										
New Source/ Reason for Delete	Delete R	ule: No longer	in invento	ory.									
Comments													
					<u> </u>							. 5	
Changed Source	ce? Y			Are There Any (	2) Optio	ons?	N			Any C	Jnange	to Record?	<b>Y</b>
ID# 60 Sy	rstem Nam	ne		AH-1S			Rı	ule 1 # [	79	Rule 2 # [		Delete Rule?	Y Y
Old Color	1 Ne	w Color						_	c	hanged Co	olor?		
Parameter 1 #	24 0	ld Param. 1 ID	turbule	enceintensity	New F	aram. 1 ID					Chan	nged Param. 1	?
Parameter 2 #	o	ld Param. 2 ID			New F	aram. 2 ID					Chan	iged Param. 2	!?
Old Value 1		1		New Va	lue 1						Chang	ed Value1?	
Old Value 2				New Va	lue 2						Chang	ed Value 2?	
Old Operator 1	1 >	New Opt. 1		Changed Opt. 1	?	Old Opt.	2	Ne	ew Opt. :	2	Cha	nged Opt. 2?	
Old Condense Impact	d	Turbulen	ce Aloft	New C Impact	ondens	ed					Chang Impact	ed Condense ?	d
Old Full Impact	Mode	rate upper-leve	el turbuler	nce degrades fly	ing saf	ety.							
New Full Impac	<sup>X</sup>												
										Cha	anged F	ull Impact?	
Old Source		ılry Division, 1											
New Source/ Reason for Delete	Delete R	ule: No longer	in invento	ory.									
Comments													
Changed Source	æ? Y	]		Are There Any (	2) Optio	ons? [	N			Any C	Change	to Record?	Y

					JW.	EDA S	ystem	Rui	es				
ID# 61	Sys	tem Name			AH-1S				Rule 1 # 80	Rule 2#		Delete Rule	? <b>Y</b>
Old Color [	2	New	/ Color							Changed	Color?		
Parameter 1	1 #	24 Old	l Param. 1 ID	turbule	enceintensity	New	Param. 1	I ID			Cha	inged Param.	1?
Parameter 2	2 #	Old	l Param. 2 ID			New	Param. 2				Cha	inged Param. 2	2?
Old Value	1 [		2		Nev	w Value 1					Chan	ged Value1?	
Old Value 2	2				Nev	w Value 2					Chan	ged Value 2?	
Old Operat	or 1	>	New Opt. 1		Changed O	pt. 1?		)pt. 2	New O	ot. 2	Ch	anged Opt. 2?	
Old Conde	nsed		Turbulen	ice Aloft		w Conder pact	nsed				Chan Impad	ged Condense ct?	d
Old Full Imp	act	Upper-	level turbule	nce > moc	lerate intensi	ity exceed	is the op	erati	ng limits.				
New Full Im	ıpact												
Old Source	17	1et Caval	ry Division, 1	1992).						С	hanged	Full Impact?	
New Source Reason for Delete			le: No longer		ory.								
Comments	Ĭ												
Changed So	ource	e? Y			Are There A	ny (2) Op	tions?	N	]	An	y Chang	e to Record?	Y
ID# 62	Sys	tem Name			AH-1S				Rule 1 # 85	Rule 2#	± [	Delete Rule	? Y
Old Color	1	New	/ Color							Changed	Color?		
Parameter 1	1#	13 Old	I Param. 1 ID	press	surealtitude	New	Param. 1	םו ו			Cha	inged Param. 1	1?
Parameter 2	2 #	Old	l Param. 2 ID			New	Param. 2				Cha	inged Param. 2	2?
Old Value	1 [		5000		Nev	w Value 1					Chan	ged Value1?	$\overline{\Box}$
Old Value	2 🗍				Nev	w Value 2					Chan	ged Value 2?	
Old Operat	tor 1	>	New Opt. 1		Changed O	pt. 1?	Old C	)pt. 2	New O	ot. 2	Ch	anged Opt. 2?	
Old Conde Impact	nsed		Pressure	Altitude		ew Conder	nsed				Chan Impa	ged Condense ct?	d 🗌
Old Full Imp	oact	Operat	ing performa	ince of rot	ary wing airc	craft is de	creased	when	operating at pro	essure alti	tudes >	5000 ft.	
New Full Im	npact										hanged.	Full Impact?	
Old Source	ĺ	1st Caval	ry Division, '	1992);							, ianyeu	i un impact!	L
New Source Reason for Delete		·	le: No longer		ory.								
Comments													
Changed So	ource	? <b>Y</b>			Are There A	Any (2) Op	tions?	N		An	y Chang	e to Record?	Y

						IWE	DA Sy	sten	n Rui	es						
ID# 63	System	Name			AH-	·1S				Rule 1 #	86	Rul	e 2 # [		Delete Rul	e? Y
Old Color [	2	New	Color									Char	iged Co	olor?		
Parameter 1	# 13	Old	Param. 1 ID	pres	surealtit	ude	New F	aram.	1 ID					Cha	nged Param.	. 1? 🔃
Parameter 2	2#	Old	Param. 2 ID				New F	Param.	2 ID			•		Cha	nged Param.	. 2?
Old Value 1	1		10000			New V	alue 1							Chang	ged Value1?	
Old Value 2	2					New V	alue 2							Chang	ged Value 2?	· [
Old Operate	or 1	7	lew Opt. 1		Chang	ed Opt.	1?	Old	Opt. 2		New Op	t. 2		Cha	anged Opt. 2	?
Old Conder Impact	nsed		Pressure	Altitude		New (	Condens	ed						Chang Impac	ged Condens t?	ed
Old Full imp			ng performa t. Actions m										g at pr	essure	e altitudes >	1
New Full Imp	pact															
Old Source	(1st	Cavaln	Division, 1	992);									Cha	inged I	Full Impact?	L
New Source Reason for Delete	/ Dele	te Rule	: No longer	in invent	ory.											
Comments																
ID # 64 Old Color	System 1	Name New	Color 1		AH-	64				Rule 1#		J	e 2 # [ ged Co	dor2	Delete Rule	? N
Parameter 1			Param. 1 ID		nperatur	Δ	New P	aram	1 10	T	mperat		ged Oc	-	nged Param.	12 N
Parameter 2	<u></u>	ᆜ		ten	iiperatur	<del></del>	New P		<u></u>		inperat	ure		_	=	<u> </u>
Old Value 1		_ Old	Param. 2 ID -25		7	New V	_	arain.	210	- 25 F					nged Param.	N
Old Value 1			-25		] ]	New V				- 25 F					ged Value1? ged Value 2?	<u> </u>
Old Operate		<= N	lew Opt. 1		] ] Change	ed Opt. 1			Ont 2		New Op	• 3			anged Opt. 2	
Old Conden			Co	ld	Change	New C	Condens		Орг. 2		ne Cold			_ Chang	jed Condens	
Impact Old Full Impa	_ 		temperatur	7E		Impac		on th	o main	or toil ro	tor obot	Ha ta		Impac	t?	
Old Full Impa	act 3	unace	temperatur	#5 <20	r iliay ca	iuse iiie	grease	on a	e mam	OI LAII IU	toi Silai	15 10	conge	aı.		
New Full Imp	pact S	urface	temperatur	es <= -25	F require	specia	l handli	ng of	elastor	netric ma	terial in	the r	nain ai	nd/or t	ail rotor sha	ifts.
Old Source	(1st	Cavalry	Division, 1	992);									Cha	nged F	Full Impact?	Y
New Source/ Reason for Delete	/ TM 5	5-1520	-238-10, Pai	a 8-84d "d	caution"	, 8-84e '	'elaston	neric ı	nateria	l", Nov 1	992					
Comments												-				
Changed So	urce?	Y			Are The	ere Any	(2) Optio	ns?	N				Any C	hange	to Record?	Υ

		IVVEL	JA Syste	m Kule	:\$ 	
ID# 65 System	m Name	AH-64			Rule 1 # 24 Rule	e 2 # Delete Rule? N
Old Color 1	New Color 1				Chan	ged Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Para	m. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Para	m. 2 ID		Changed Param. 2?
Old Value 1	100	New V	alue 1		100 F	Changed Value1? N
Old Value 2		New V	alue 2			Changed Value 2?
Old Operator 1	>= New Opt. 1	>= Changed Opt.	1? N C	ld Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Hot	New (	Condensed t		Very Hot	Changed Condensed Y Impact?
Old Full Impact	Temperatures >= 100 F	degrade aircraft perfo	rmance.			
New Full Impact	Temperatures >= 100 F	degrade aircraft perfo	ormance.			
OH 0						Changed Full Impact?
New Source/ Reason for Delete	st Cavalry Division, 1992) // 55-1520-238-10, Para 8-		92			
Comments						
Changed Source?	Y	Are There Any	(2) Options	? N		Any Change to Record?
ID# 66 Syste	m Name	AH-64			Rule 1 # 32 Rule	e 2 # Delete Rule? N
Old Color 2	New Color 1	]			Chan	ged Color? Y
Parameter 1 #	23 Old Param. 1 ID	thunderstorm	New Para	m. 1 ID	Thunderstorm	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Para	m. 2 ID		Changed Param. 2?
Old Value 1	1	New V	alue 1		yes	Changed Value1? Y
Old Value 2		New V				Changed Value 2?
Old Operator 1	= New Opt. 1	= Changed Opt.	1? N C	old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Thundersto	rm New (	Condensed ct		Thunderstorm	Changed Condensed N Impact?
Old Full Impact	Any occurrence of thun	derstorms curtail airc	craft and re	fueling op	erations due to safely	considerations.
New Full Impact	Flights in thunderstorm	s should be avoided,	causing d	elays.		
Old Source (1	st Cavalry Division, 1992	);				Changed Full Impact?
New Source/ Reason for Delete	R 95-1, Para 5-2d(3), May	1990				
Comments						
Changed Source?	Y	Are There Any	(2) Options	? N		Any Change to Record? Y

	Changed Color? N  ter 1 # 11 Old Param. 1 ID hail New Param. 1 ID Hail Changed Param. 1? N  ter 2 # Old Param. 2 ID New Value 1 Yes Changed Value1? Y  lue 1 1 New Value 2 Changed Value 2?  lue 2 New Opt. 1 = Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2?  Indensed Hail New Condensed Hail Changed Condensed Impact?  Impact Any occurrence of hail produces hazardous weather conditions and reduces operational capabilites.  Changed Full Impact?  Changed Full Impact?  Impact (1st Cavalry Division, 1992);  FM 1-230, Para 12-7, Sep 1982																
ID# 67 S	ystem N	lame			AH-	64				Rule 1#	33	Rule	2#[	-	Delete R	ule?	N
Old Color	1	New C	olor 1									Chan	ged Co	olor?	N		
Parameter 1 #	11	Old P	aram. 1 ID[		hail		New F	aram.	1 ID		Hail			Cha	inged Para	m. 1?	N
Parameter 2 #	£	Old P	aram. 2 ID				New P	aram.	2 ID					Cha	inged Para	m. 2?	Ē
Old Value 1			1			New V	/alue 1			Yes				Chan	ged Value1	?	Y
Old Value 2						New V	alue 2							Chan	ged Value	2?	
Old Operator	1 =	: Ne	ew Opt. 1	=	Change	ed Opt.	1? N	Old	Opt. 2	N	lew Opt	t. 2		Ch	anged Opt.	2?	$\sqcap$
Old Condense Impact	ed		Hai					ed		Ha	nil					nsed	N
Old Full Impac	t An	y occu	rrence of h	ail produ	ces haza	rdous	weather	condi	tions a	and reduce	s open	ationa	al capa	abilite	s.		
New Full Impa	ct An	y occu	rrence of h	ail produ	ces haza	rdous	weather	condi	tions a	and reduce	s oper	ationa					
Old Source	(1st C	avalry	Division, 19	92);									Cha	inged	Full Impact	?	
New Source/ Reason for Delete	FM 1-2	230, Pa	ra 12-7, Se <sub>l</sub>	1982											,		
Comments		_								7/8334							
Changed Sour	ce?	Y			Are The	ere Any	(2) Optic	ons?	N		,		Any C	hange	e to Record	?	Y
ID# 68 Sy	ystem N	ame [			AH-	64				Rule 1 #	56	Rule	2#		Delete R	ıle?	N
Old Color	2	New C	olor 1								(	Chang	ed Co	lor?	Y		
Parameter 1 #	10	Old Pa	aram. 1 ID	free	ezingrair	)	New P	aram.	1 ID	Free	zing R	ain		Cha	nged Parar	n. 1?	N
Parameter 2 #		Old Pa	aram. 2 ID				New P	aram. :	2 ID					Cha	nged Parar	n. 2?	
Old Value 1			0			New V	alue 1			None			1	Chang	ged Value1	?	Y
Old Value 2						New V	alue 2							Chang	ged Value 2	?	
Old Operator	1 >	Ne	w Opt. 1	>	Change	d Opt. 1	1? N	Old C	Opt. 2	No.	ew Opt.	. 2		Cha	anged Opt.	2?	
Old Condense Impact	ed		Freezing	Rain		New C	Condense t	ed ∫		Freezin	g Rain			Chang Impac	ged Conder t?	sed	N
Old Full Impac	t An	у осси	rrence of fr	eezing ra	in delays	s missi	on laund	h bec	ause e	xposed aii	craft m	nust b	e deic	ed.			
New Full Impac	ct Any	y occu	rrence of fro	ezing ra	in delays	s missi	on laund	h bec	ause e	xposed air	craft m	nust b	e deic	ed.			
Old Source	(1st Ca	avairy	Division, 19	92);									Cha	nged F	Full Impact	? [	N
New Source/ Reason for Delete	TM 55	-1520-2	38-10, Para	8-83, 8-8	84, Nov 9	2											
Comments															*****		
Changed Source	ce?	Y			Are The	re Any	(2) Optio	ns?	N				Any C	hange	to Record	? [	Y

			IV	NEDA S	ysten	n Rule	98					
ID # 69 Syst	tem Name		AH-64				Rule 1#	60	Rule 2#		Delete Rule	? N
Old Color 1	New Color	1							Changed (	Color?	N	
Parameter 1 #	17 Old Param. 1	D	snow	New	Param.	1 ID		Snow		Ch	anged Param. 1	1? N
Parameter 2 #	Old Param. 2	D		New	Param.	2 ID				Ch	anged Param. 2	2?
Old Value 1	0		N	ew Value 1			None			Cha	nged Value1?	Y
Old Value 2			N	lew Value 2						Cha	nged Value 2?	
Old Operator 1	> New Opt. 1	>	Changed	Opt. 1?	N Old	Opt. 2	N	iew Opt	t. 2	CI	hanged Opt. 2?	
Old Condensed Impact	S	inow	1 .	New Conde mpact	nsed		Light	Snow		Chai Impa	nged Condense act?	d Y
Old Full Impact	Any occurrence of	f snowfall p	oroduces ha	azardous v	veather	conditio	ons and re	educes	operation	al cap	abilities.	
New Full Impact	Any occurrence o	f snowfall p	oroduces ha	azardous v	veather	conditie	ons and re	educes				
Old Source (	1st Cavalry Division	, 1992);							C	nangeo	I Full Impact?	Y
	гм 55-1520-238-10, F		84, Nov 92									
Comments												
Changed Source	9? Y		Are There	Any (2) Op	otions?	N			Any	Chan	ge to Record?	Y
ID# <b>70</b> Sys	tem Name		AH-64				Rule 1#	62	Rule 2#		Delete Rule	? N
Old Color 1	New Color	1							Changed (	Color?	N	
Parameter 1 #	1 Old Param. 1	iD <b>bl</b> c	wingsand	New	<i>i</i> Param	. 1 ID	Blo	wing S	and	Ch	anged Param.	1? N
Parameter 2 #	Old Param. 2	ID		Nev	/ Param	. 2 ID				Ch	anged Param.	2? 🗌
Old Value 1	1		N	lew Value 1		_	Yes			Cha	nged Value1?	Y
Old Value 2			N	lew Value 2	2					Cha	nged Value 2?	
Old Operator 1	= New Opt.	=	Changed	Opt. 1?	N Old	Opt. 2	1	New Op	t. 2	С	hanged Opt. 2?	
Old Condensed Impact	Blow	ing Sand		New Conde	nsed		Blowin	g Sand		Cha Impa	nged Condense act?	ed N
Old Full Impact	Any occurrence	of blowing s	and reduce	s visibility	and wi	ll make	hovering	and lar	nding diffi	cult.		
New Full Impact	Any occurrence	of blowing s	and reduce	es visibility	and wi	II make	hovering	and lar	nding diffi	cult.		
Old Source	(1st Cavalry Division	1002).							С	hanged	d Full Impact?	N
Ļ	FM 1-202, Para 2-3b		183									
Comments						<u>_</u>	<u>-</u>					
Changed Source	e? <b>Y</b>		Are There	e Any (2) O	ptions?	N	]		An	y Chan	ge to Record?	Υ

·				ľ	WED	OA Sy	stem	Rul	es					
ID # 71 Sy	stem Name			AH-64	ı				Rule 1#	63	Rule 2	#	Delete Rul	e? N
Old Color	1 New	Color 1									Change	d Color?	N	
Parameter 1 #	21 Old	Param. 1 ID	surfac	ewindspe	ed	New P	aram. 1	ID	Sui	face W	inds	Ch	anged Param	. 1? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	םו 🖳				Ch	anged Param	. 2?
Old Value 1		30		1	lew Va	alue 1			45 kts.			Cha	nged Value1?	Y
Old Value 2				1	lew Va	alue 2						Cha	nged Value 2?	,
Old Operator 1	>=	New Opt. 1	>	Changed	Opt. 1	? Y	Old O	pt. 2		New Op	t. 2	CI	hanged Opt. 2	?
Old Condense Impact	d	Surface \	Wind		New C	ondens t	ed [		Strong Su	rface W	/ind	Char	nged Condens	sed Y
Old Full Impact	Surface	wind speed >	30 kts ir	npacts th	e abili	ty to op	erate s	afely	at NOE al	titudes.	•	<del></del>		
New Full Impac	Surface	winds > 45 kt	s. may ir	npact gro	und o	peratio	ns, roto	rs sh	nould not i	oe start				
Old Source	(1st Cavalr	y Division, 19	92);								•	Changed	Full Impact?	Υ
New Source/ Reason for Delete	TM 1-1520-	238-10, Para 8	3.43, Sep	1996				,						
Comments														
Changed Source	e? Y			Are There	Any (	2) Optic	ons?	N			Ar	ny Chang	e to Record?	Υ.
ID # 72 Sys	stem Name			AH-64					Rule 1#	68	Rule 2	#	Delete Rule	? N
Old Color 2	2 New	Color 2									Changed	Color?	N	
Parameter 1 #	21 Old	Param. 1 ID	surface	windspee	d	New P	aram. 1	ID	Surfac	e Wind	Speed	Cha	anged Param.	1? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID				Cha	anged Param.	2?
Old Value 1		45		N	ew Va	lue 1			45 kts.			Chan	ged Value1?	N
Old Value 2					ew Va						لــــ		ged Value 2?	
Old Operator 1	> 1	lew Opt. 1	>	Changed	Opt. 1	? N	Old Op	ot. 2		lew Opt	. 2	Ch	anged Opt. 2	?
Old Condensed Impact	1	Surface V	Vind	1 -	New Compact	ondense	ed		Strong Su	face W	ind	Chan Impa	ged Condens ct?	ed Y
Old Full Impact	Surface	wind speed >	= 45 kts	exceeds t	ne sys	tem op	eratin li	imits	to start er	igines.				
New Full Impact	Surface	wind speed >	= 45 kts (	exceeds ti	ne sys	tem op	erating	limit	s to start e	engines	j.			
Old Sauras	/Act County	Division 400	20.								C	Changed	Full Impact?	N
Į.		Division, 199 -238-10, Para		/ 1992										
Comments														
ا Changed Source	e? <b>Y</b>			Are There	Any (	2) Optio	ns?	N	]		An	y Chang	e to Record?	Y

		# Old Param. 2 ID New Param. 2 ID Changed Param. 2?   1 New Value 1 Light Changed Value 1? Y New Value 2 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Seed Icing Aloft Impact Impact Impact Impact?  act Upper-level icing intensity > light may degrade performance.  Upper-level icing intensity > light may degrade performance if the aircraft is flying between (~ icing base ) & (~ icing tops) feet AGL. Must have ice detector sensing head.  Changed Full Impact?  (1st Cavalry Division, 1992);  TM 55-1520-238-10, Para 8-60, 5-23, Nov 1992  Urce? Y Are There Any (2) Options? N Any Change to Record? Y  System Name AH-64 Rule 1 # 78 Rule 2 # Delete Rule? N 2 New Color 2 Changed Color? N  # 12 Old Param. 1 ID Icing Intensity New Param. 1 ID Icing Intensity Changed Param. 1? N # Old Param. 2 ID New Value 1 Moderate Changed Value 2?											
ID# 73	Syst	em Name			AH-64			Rule 1 #	77	Rule 2#		Delete Rule?	? N
Old Color	1	New	Color 1							Changed	Color?	N	
Parameter	1#	<b>12</b> Old	Param. 1 ID	icin	gintensity	New P	aram. 1 ID	lcin	ıg Inten	sity	Cha	inged Param. 1	1? N
Parameter	2#	Old	Param. 2 ID			New F	aram. 2 ID				Cha	inged Param. 2	2?
Old Value	1		1	· · · · · · · · · · · · · · · · · · ·	New V	/alue 1		Light			Chan	ged Value1?	Y
Old Value	2				New V	/alue 2					Chan	ged Value 2?	
Old Opera	tor 1	>	New Opt. 1	>	Changed Opt.	1? N	Old Opt.	2 N	New Opt	t. 2	Ch	anged Opt. 2?	
Old Conde Impact	ensed		lcing	Aloft	1	-	sed	lcing	Aloft			_	d N
Old Full Im	pact	Upper-I	evel icing in	itensity > I	light may degra	de perfo	rmance.						
New Full In	npact							the aircraft i	s flying	) between	(~ icing	j base ) & (∼ io	ing
Old Source	. [	1st Cavalı	v Division.	1992):						С	hanged	Full Impact?	Y
New Sourc Reason for Delete	e/ 1				23, Nov 1992	,							
Comments	Ì												
Changed S	ource	? Y			Are There Any	(2) Optio	ons? [	······································		Any	/ Chang		
ID# 74			<u> </u>		AH-64			Rule 1 #		l	L		? N
Old Color						¬							40 11
Parameter	Į.				ngintensity	=			ng Inten	sity		_	
Parameter	ا	Old			7		aram. 2 ID					-	
Old Value	느		2		_			Moderate				-	¥
Old Value												_	<u> </u>
Old Opera		>	New Opt. 1	>	Changed Opt.	<u></u>			New Op			anged Opt. 2?	
Old Conde Impact	ensed		lcing	Aloft	New Impa	Condens ct	sed	Severe le	cing Ald	oft	Chan Impa	ged Condense ct?	Y
Old Full Im	pact	IAW AF	R95-1, aircra	ft cannot f	fly into areas of	icing in	tensity > n	noderate.					
New Full In	npact		t cannot fly ase) and (~ i		of known or for ) feet AGL	recast u	pper level	icing > mode	erate in	tensity at	flight le	evels between	(~
										C	hanged	Full Impact?	Υ
Old Source	• [	1st Caval	ry Division,	1992);									
New Source Reason for Delete	1	ΓM 55-152	0-238-10, Pa	ra 5-23, N	ov 1992								
Comments	,									<u>.</u>			
Changed S	i Source	? <b>Y</b>			Are There Any	/ (2) Opti	ons?	N		An	y Chang	e to Record?	Υ

					IW	EDA S	ystem	Rul	es					
ID# 75	Syste	m Name			AH-64				Rule 1#	79	Rule 2#		Delete Rule	? N
Old Color	1	New	Color 1							(	Changed	Color?	N	
Parameter 1	# []	24 Old	Param. 1 ID	turbule	enceintensity	New	Param.	1 ID	Turbule	nce in	tensity	Cha	anged Param.	1? N
Parameter 2	#	Old	Param. 2 ID			New	Param. 2	2 ID				Cha	anged Param.	2?
Old Value 1			1		Nev	v Value 1			Light			Chan	nged Value1?	Y
Old Value 2					Nev	v Value 2						Chan	nged Value 2?	
Old Operato	or 1	>	New Opt. 1	>	Changed Op	ot. 1? 🛚 🖹	Old C	pt. 2	N	ew Opt	. 2	Ch	nanged Opt. 2?	' [
Old Conden Impact	sed		Turbulenc	e Aloft		w Conden pact	sed	Мо	derate Turt	oulence	Aloft	Chan Impa	nged Condense ct?	ed Y
Old Full Impa	act	Upper-i	evel turbulen	ce > light	t intensity de	grades fly	ying safe	ety.						
New Full Imp	act		evel turbulen ulence tops) fe							is flyir	ng betwe	en (~ tu	irbulence base	e) &
Old Source	(15	t Cavalr	y Division, 19	192):							С	hanged	Full Impact?	Y
New Source/ Reason for Delete			0-238-10, Para		ov 1992									
Comments														
Changed Sou	urce?	Υ			Are There A	ny (2) Opt	ions?	N			Any	Chang	e to Record?	Υ ]
ID# 76	Syster	n Name			AH-64				Rule 1#	80	Rule 2#		Delete Rule	? N
Old Color	2	New	Color 2							C	Changed (	Color?	N	
Parameter 1	# 2	24 Old	Param. 1 ID	turbule	enceintensity	New	Param. 1	ID	Turbule	nce Int	ensity	Cha	anged Param. 1	1? N
Parameter 2	#	Old	Param. 2 ID			New	Param. 2	! ID				Cha	anged Param. 2	2?
Old Value 1			2		New	/ Value 1			Moderate			Chan	ged Value1?	Y
Old Value 2					New	/ Value 2						Chan	ged Value 2?	
Old Operato	r 1	> 1	New Opt. 1	>	Changed Op	ot. 1? N	Old O	pt. 2	Ne	ew Opt.	2	Ch	anged Opt. 2?	
Old Condens Impact	sed		Turbulenc	e Aloft	1.	w Conden	sed	Se	evere Turbu	lence /	Aloft	Chang Impad	ged Condense ct?	d Y
Old Full Impa	act	Upper-l	evel turbulend	ce > mod	erate intensi	ty exceed	s the op	eratir	ng limits.					
New Full Imp			will not be in lence tops). I							it level	is betwe	∍n (~ tu	rbulence base	e) &
Old Source	(1s	t Cavalr	y Division, 19	92);							С	nanged	Full Impact?	Y
New Source/ Reason for Delete			ara 5-2d(2), M 0-238-10, Para	-	Nov 1992									
Comments														
Changed Sou	urce?	Υ			Are There Ar	ny (2) Opti	ions?	N	]		Any	Chang	e to Record?	Y

## **IWEDA System Rules** ID# 77 System Name **AH-64** Rule 1# 83 Rule 2# Delete Rule? Old Color 1 **New Color Changed Color?** upperairwindspeed New Param, 1 ID Changed Param. 1? 25 Old Param. 1 ID Parameter 1 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Value 1 17 New Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Old Operator 1 Old Opt. 2 New Opt. 2 Changed Opt. 2? >= New Opt. 1 Winds Aloft **New Condensed Changed Condensed** Old Condensed Impact Impact Impact? Upper-level wind speed >= 17 kts at flight level makes target acquisition difficult because of the increased time Old Full Impact needed to acquire targets. New Full Impact Changed Full Impact? Old Source (1st Cavairy Division, 1992); New Source/ Delete Rule: Not significant. Reason for Delete Comments Υ Υ N Are There Any (2) Options? Any Change to Record? Changed Source? Delete Rule? ID# 78 AH-64 Rule 1# 85 Rule 2# System Name Old Color **New Color** Changed Color? N Changed Param. 1? N Parameter 1 # Old Param. 1 ID pressurealtitude New Param. 1 ID **Pressure Altitude** Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Value 1 5000 New Value 1 5000 ft. Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Opt. 2 Changed Opt. 1? N Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 Changed Condensed Old Condensed Pressure Altitude **New Condensed High Pressure Altitude** Y Impact? Impact Impact Operating performance of rotary wing aircraft is decreased when operating at pressure altitudes > 5000 ft. Old Full Impact New Full Impact Operating performance of rotary wing aircraft may be decreased when operating at pressure altitudes > 5000 ft. Υ Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ TM 1-1520-238-10, Chapter 7, Sep 1996 FM 1-230, Para 5-8, Sep 1982 Reason for Delete Comments Y Υ Are There Any (2) Options? N Any Change to Record? Changed Source?

						IWE	DA Sy	sten	n Rui	es						
iD# 79	System N	lame			AH	-64				Rule 1#	86	Rui	e 2 #		Delete Rule	? <b>Y</b>
Old Color	2	New (	Color									Chan	iged C	olor?		
Parameter 1	# 13	Old F	Param. 1 ID	pres	surealtit	ude	New F	Param.	1 ID					Cha	inged Param.	1?
Parameter 2	2#	Old F	Param. 2 ID	•			New F	aram.	2 ID			-		T Cha	inged Param.	27
Old Value 1	1		10000		7	New V	_ /alue 1					$\overline{}$		Chang	ged Value1?	
Old Value 2	2				ĺ	New V	alue 2							Chang	ged Value 2?	
Old Operate	or 1 >	N	ew Opt. 1		Chang	ed Opt.	1?	Old	Opt. 2	1	lew Op	ot. 2		Cha	anged Opt. 2?	,
Old Conder Impact	nsed		Pressure	Altitude		New (	Condens	sed						Chang Impad	ged Condense	ed
Old Full Imp			g performar . Actions ma										g at pr	essure	e altitudes >	
New Full Imp	pact				,								01		E	
Old Source	(1st C	avalry	Division, 19	1921:									Cna	ingea i	Full Impact?	
New Source Reason for Delete	<u></u>				∕e. Pilot	has opt	ions. De	elete a	s a red	l condition	. It is i	nciud	ed in y	ellow	condition (>	5000
Comments																
Changed So	urce?	Y			Are Th	ere Any	(2) Optio	ons?	N	]			Any (	Change	e to Record?	Y
ID # 80	System Na	ame			AH-	-64				Rule 1#	106	Rule	92#[	106	Delete Rule?	? N
Old Color	1	New C	Color 1									Chan	ged Co	olor?	N	
Parameter 1	# 4	Old F	aram. 1 ID	clo	oudcove	r	New P	aram.	1 ID	Clo	ud Co	ver		Char	nged Param. 1	1? N
Parameter 2	# 3	Old F	aram. 2 ID	cl	oudbase	,	New P	aram.	2 ID	Cle	oud Ba	se		Char	nged Param. 2	2? N
Old Value 1			0		]	New Va	alue 1			none				Chang	ged Value1?	Y
Old Value 2			300		]	New V	alue 2	300 F	t.					Chang	ged Value 2?	N
Old Operato	or 1 >	N	ew Opt. 1	>	Change	ed Opt. 1	1? N	Old	Opt. 2	<= N	ew Opt	t. 2	<=	Cha	anged Opt. 2?	N
Old Conden Impact	ised		Cloud	is		New C Impac	Condens t	ed		Very Low	Cloud	is		Chang Impac	jed Condense t?	d Y
Old Full Impa	act Clo	ud ba	ses <= 300 1	t reduce	mobility	and eff	fectiven	ess.								
New Full Imp	oact Clo	ud ba	ses <= 300 f	t reduce	mobility	and eff	fectiven	ess.								
													Cha	inged F	Full Impact?	N
Old Source			Division, 19													
New Source/ Reason for Delete			th Mr. John A, Aug 1997		, Instruc	tor Pilot	, Chief	Aviatio	on App	olied Techr	ology	Direc	torate	, Feike	er Army Airfie	ld,
Comments																
Changed So	urce?	Y			Are The	ere Any (	(2) Optic	ns?	Υ		_		Any C	Change	to Record?	Υ

			IWED	A Sys	tem Ru	les				
ID # 81 Syst	Old Param. 2 ID  New Param. 2 ID  New Value 1  None  Changed Param. 2 P  Changed Value 1?  New Value 2  Or 1 > New Opt. 1 > Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2?  Insed  Freezing Rain  New Condensed  Freezing Rain  New Condensed  Impact  Freezing rain may delay mission launch and recovery due to icy runway conditions and delcing of aircraft.  Freezing rain > none may lead to delay or cancelation of missions.  Changed Full Impact?  Y  Inst Cavalry Division, 1992);  TM 55-1510-218-10, Para 8-64, Feb 1994  TM does not mention intensity.  Durce?  Y  Are There Any (2) Options?  N  Any Change to Record?  Y  System Name  C-12  Rule 1 # 58 Rule 2 # Delete Rule?  Changed Color?  N  System Name  Changed Color?  N  Changed Color?  N  Thew Color  Old Param. 1 ID  Snow  New Param. 2 ID  Changed Color?  N  Changed Param. 2?  Changed Value 1?  New Value 1  New Value 1  New Value 2  Changed Value 2?  Changed Value 2?									
Old Color 2	Rule 1 # 56 Rule 2 # Delete Rule? N Changed Color? Y  ter 1 # 10 Old Param. 1 ID freezingrain									
Parameter 1 #	10 Old Param. 1 ID	freezingra	ain	New Pa	ıram. 1 ID[	Fre	ezing Ra	in	Changed Paran	i. 1? N
Parameter 2 #	Old Param. 2 ID	)		New Pa	ıram. 2 ID				Changed Param	ı. 2? 🔃
Old Value 1	0		New Va	ılue 1		None			Changed Value13	Υ Υ
Old Value 2	Old Value 1 0 New Value 1 None Changed Value 1? Y Old Value 2 New Opt. 1 New Opt. 1 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Condensed Impact Freezing Rain New Condensed Impact Changed Condensed Impact Preezing rain may delay mission launch and recovery due to icy runway conditions and deicing of aircraft.  New Full Impact Freezing rain > none may lead to delay or cancelation of missions.  Changed Full Impact?  Y Old Source (1st Cavalry Division, 1992); New Source/Reason for Delete Comments TM does not mention intensity.									
Old Operator 1	> New Opt. 1	> Chan	ged Opt. 1	? N	Old Opt. 2	2	lew Opt. 2	2	Changed Opt.	2?
Old Condensed Impact	Freezi	ng Rain			d	Freezin	g Rain		•	sed N
Old Full Impact	Freezing rain may	delay mission lau	ınch and r	ecovery	due to icy	runway co	nditions	and deic	ing of aircraft.	
New Full Impact	Freezing rain > nor	ne may lead to de	lay or can	celation	of missio	ns.				
Old Source (	1st Cavalry Division,	1992);				7		Cha	anged Full Impact?	Y
New Source/ Reason for Delete	ΓM 55-1510-218-10, Pa	ıra 8-64, Feb 1994	ļ			<u>-</u> J				
Comments	TM does not mention	intensity.								
Changed Source	? Y	Are T	here Any (	2) Option	ns?	<u> </u>		Anv	Change to Record	Y
			:-12			Rule 1#				le? N
Parameter 1 #		snow		New Pa	ram. 1 ID				_	ı. 1? N
Parameter 2 #					_				⊒ -	
Old Value 1			New Va	٠	L	Heavy		7		<u> </u>
Old Value 2			New Va	alue 2					_	<u></u>
Old Operator 1	= New Opt. 1	= Chan	ged Opt. 1	? N	Old Opt. 2	2   N	lew Opt. 2	2	_	
Old Condensed Impact			New C	ondense					Changed Conden	
Old Full Impact	Heavy snow delays	s mission launch	and recov	ery due	to low cei	lings and vi	sibilities	•		
New Full Impact	Heavy snow delays	s mission launch	and recov	ery due	to low cei	lings and v	isibilities	•		
Old Source	(1st Cavalry Division,	1992):			-74	7		Ch	anged Full Impact?	N
Ľ.	AR 95-1, Para 5-2d(5),									
Comments										
Changed Source	e? Y	Are T	here Any	(2) Optio	ns? [I	N	· · · · · · · · · · · · · · · · · · ·	Any	Change to Record	? <b>Y</b>

	Old Param. 2 ID  New Param. 2 ID  Changed Param. 2 7  1															
ID # 83	System	Name			C-	12				Rule 1#	66	Rule	2#		elete Rui	e? N
Old Color	1	New 0	Color 1									Chang	ed Colo	r? [I	N	
Parameter 1	# 21	Old F	Param. 1 ID	surfac	ewinds	peed	New F	aram.	1 ID	Surface	Wind	Speed		Change	ed Param.	1? N
Parameter 2	#	Old F	Param. 2 ID				New F	aram.	2 ID					Change	ed Param.	2?
Old Value 1			25		]	New V	alue 1			25 kts.			C	hanged	Value1?	N
Old Value 2					]	New V	alue 2						C	hanged	Value 2?	
Old Operato	or 1 🗀	>= N	ew Opt. 1	>	Change	ed Opt.	1? Y	Old	Opt. 2	N	ew Op	t. 2		Chang	ed Opt. 2	?
Old Conden Impact	sed		Surface '	Wind				ed		Surface	Wind				Condens	ed N
Old Full Impa	act S	urface v	winds > 25 k	ts degrad	de aircra	aft abilit	y to tak	e off ar	nd lan	d safely.						
New Full Imp	pact S	ourface v	winds > 25 k	ts may d	egrade a	aircraft :	ability to	o take	off an	d land safe	ly.					
	14.								<del></del>				Chang	ed Full	Impact?	Y
Old Source				·												
New Source/ Reason for Delete	Inter	view wi	th Mr. John	Benham,		tor Pilo	t, Chief	Aviatio	n Apı	plied Techr	ology	Direct	orate, F	elker A	Army Airfi	eld,
Comments									-							
Changed Sou	urce?	Y			Are The	ere Any	(2) Optio	ons?	N				Any Cha	ange to	Record?	Y
					C-1	12				Rule 1 #			L		elete Rule	;? Y
Old Color		_	L				] <b>-</b>					Change				40
Parameter 1	<u> </u>	=	_	surfac	ewindsp	peed	_		<u></u>							
Parameter 2	#	Old F			1		_	aram. i	2 ID					_		2?
Old Value 1			45		1					45 kts.		_		-		
Old Value 2					1			L								
Old Operato		> N		>	Change	1	L	,	Opt. 2	N N	ew Opt	t. 2				
Old Condens Impact	sed		Surface	Wind		New C		ed						nanged pact?	Condens	ed
Old Full Impa	act S	urface v	vinds > 45 k	ts exceed	d aircraf	t ability	to take	off and	land	safely.						
New Full Imp	pact															
Old Source	(1st	Cavalry	Division, 19	92);									Chang	ed Full	Impact?	
New Source/ Reason for Delete			No longer i		luded ir	rule ID	# 83									
Comments				*****										-		
Changed Sou	urce?	Y			Are The	ere Any	(2) Optio	ns?	N	]			Any Cha	ange to	Record?	Y

## **IWEDA System Rules** ID# 85 System Name C-12 Rule 1# 78 Rule 2# Delete Rule? **New Color** Changed Color? Υ Old Color icingintensity New Param. 1 ID Icing Intensity Changed Param. 1? N 12 Old Param. 1 ID Parameter 1 # New Param. 2 ID Changed Param. 2? Old Param. 2 ID Parameter 2 # New Value 1 Moderate Changed Value1? Old Value 1 Old Value 2 New Value 2 Changed Value 2? Changed Opt. 2? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Old Operator 1 New Opt. 1 Icing Aloft Severe Icing Aloft **Changed Condensed New Condensed** Old Condensed Impact? Impact Impact lcing aloft > moderate creates conditions which exceed aircraft ability to fly safely, even with anit-icing and deicing Old Full Impact systems engaged. licing > moderate intensity forecast between (~ icing base) & (~ icing tops) feet AGL creates conditions which exceed New Full Impact aircraft ability to fly safely, even with anit-icing and deicing systems engaged. Changed Full Impact? Υ Old Source (1st Cavairy Division, 1992); TM 55-1510-218-10, Para 8-64, Feb 1994 New Source/ Reason for Delete Comments Υ N Are There Any (2) Options? Any Change to Record? Changed Source? Y 79 Rule 2# Delete Rule? Y C-12 Rule 1# ID# 86 System Name **New Color** Changed Color? Old Color Changed Param. 1? Parameter 1 # Old Param. 1 ID turbulenceintensity New Param. 1 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Value1? Old Value 1 New Value 1 Changed Value 2? Old Value 2 New Value 2 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Changed Condensed Old Condensed Turbulence Aloft **New Condensed** Impact? Impact impact Turbulence > light aloft makes the platform unstable and degrades sensor performance. Old Full Impact New Full Impact Changed Full Impact? (1st Cavalry Division, 1992); Old Source Delete Rule: Included in Rule ID# 87 New Source/ Reason for Delete Comments Y Are There Any (2) Options? N Any Change to Record? Υ Changed Source?

						IWE	DA Sy	sten	า Rul	les						
ID # 87	Syste	m Name			C-	12	.,			Rule 1 #	80	Rule	2#	Delete R	ule?	N
Old Color	2	New	Color 1									Change	d Color?	Υ		
Parameter 1	#	24 Old	Param. 1 ID[	turbul	enceinte	ensity	New F	Param.	1 ID	Turbule	ence Ir	ntensity	C	hanged Parai	m. 1?	N
Parameter 2	#	Old	Param. 2 ID				New F	Param.	2 ID				c	hanged Parai	m. 2?	
Old Value 1			2		]	New ∨	/alue 1			Moderate			Cha	anged Value1	?	Y
Old Value 2	!					New V	/alue 2						Cha	anged Value 2	2?	<u></u>
Old Operato	or 1	> 1	New Opt. 1	>	Chang	ed Opt.	1? N	Old	Opt. 2	N	ew Op	t. 2	0	hanged Opt.	2?	
Old Conden Impact	seđ		Turbulen	e Aloft		New Impa	Condens ct	sed	S	evere Turb	ulence	Aloft		anged Conder act?	nsed	Υ
Old Full Impa	act		nce > moder conditions fo		makes t	he platf	orm ver	y unst	able, s	severely de	grades	senso	perform	nance, and c	reate	s
New Full Imp	oact		f > moderate since it mak										decrea	sed air spee	d.	
Old Source	(1s	t Cavair	y Division, 1	992):									Change	d Full Impact	?	Y
New Source/ Reason for Delete			-218-10, Para		eb 1994									<u></u>		
Comments																司
Changed So	urce?	Y			Are Th	ere Any	(2) Option	ons?	N			, A	iny Chan	ge to Record	? {	Υ
ID# 88	Syster	n Name			CH-	47D				Rule 1#	7	Rule 2	#	Delete Ru	ıle?	N
Old Color	1	New	Color 1				_					Change	d Color?	N		
Parameter 1	# 2	2 Old	Param. 1 ID	ten	nperatur	е	New P	aram.	1 ID	Ten	perati	ure	CI	nanged Paran	n. 1?	N
Parameter 2	#	Old	Param. 2 ID				New P	aram.	2 ID				CI	nanged Paran	n. 2? [	
Old Value 1			-25			New V	alue 1			- 25 F			Cha	nged Value1	? [	N
Old Value 2						New V							Cha	nged Value 2	? [	
Old Operato	or 1	<= N	lew Opt. 1	<=	Change	ed Opt.	1? N	Old	Opt. 2	No.	ew Opt	. 2	c	hanged Opt.	2? [	
Old Condens Impact	sed		Cole	<b></b>		New 0	Condens t	ed		Extreme	Cold		Cha Imp	nged Conder act?	nsed [	Υ
Old Full Impa	act	Surface	temperature	s <= -25 l	F may ca	ause gre	ease on	the ro	tor sha	afts to cong	jeai.					
New Full Imp	act	Surface	temperature	s <= - 25	F requir	e specia	al lubric	ants.								
0110	-												Change	full Impact	? [	Y
Old Source	L		Division, 19		-4- 0 5	L 400-										_
New Source/ Reason for Delete	1 M	əə-1520 	-240-10, Tabi	e ∠-3 - No	ote C, F6	±0 1997										
Comments																司
Changed Sou	urce?	Υ			Are The	ere Anv	(2) Optic	ns?	N	]		Α	ny Chan	ge to Record	? [	Y

					IWEL	DA Sy	stem	Rule	es					
ID # 89 Sys	Changed Param. 2 ID  New Param. 2 ID  New Value 1  New Value 1  New Value 2  Changed Value 2?  Thunderstorm  New Condensed Inductor Changed Condensed Numpact?  Any occurrence of thunderstorms curtail aircraft and refueling operations due to safety considerations.  Changed Full Impact?  Thunderstorm Changed Condensed Numpact?  Any occurrence of thunderstorms curtails refueling operations and requires flight away from proximity resulting in delays.  Changed Full Impact?  Y  System Name CH-47D  Rule 1 # 33 Rule 2 # Delete Rule? N  1 New Color 1  New Color 1  New Param. 2 ID  Changed Color? N  New Param. 2 ID  Changed Color? N  New Param. 2 ID  Changed Param. 1? N  Changed Color? V  New Param. 2 ID  Changed Param. 2?  1 1 New Color 1  New Param. 2 ID  Changed Value 1  Y  Changed Value 2?  Changed Condensed N  Impact?  Any occurrence of hail produces hazardous weather conditions and reduces operational capabilities.													
Old Color :	System Name  CH-47D  Rule 1 # 32 Rule 2 # Delete Rule? N  Changed Color? Y  # 23 Old Param. 1 ID thunderstorm New Param. 1 ID Thunderstorm Changed Param. 1? N  # Old Param. 2 ID New Value 1 yes Changed Value!? Y  New Value 1 yes Changed Value!? Y  New Value 2 Changed Value 2? Changed Value 2?  Thunderstorm New Condensed Thunderstorm Changed Opt. 2? Changed Opt. 2?  Seed Thunderstorm New Condensed Impact Thunderstorm Changed Condensed N  Impact?  Any occurrence of thunderstorms curtail aircraft and refueling operations due to safety considerations.  Changed Full Impact?  (1st Cavalry Division, 1992);  TM 55-1520-240-10, Para 8-84, Feb 1997  System Name CH-47D Rule 1 # 33 Rule 2 # Delete Rule? N  Changed Color? N													
Parameter 1 #	23	Old Param. 1 ID	thu	nderstor	m	New P	aram.	1 ID	Thu	ındersto	orm	Ch	anged Param.	1? N
Parameter 2 #		Old Param. 2 ID				New P	aram.	2 ID				Ch	anged Param. 2	2? 🔙
Old Value 1	- " -	1			New V	alue 1			yes			Chai	nged Value1?	Y
Old Value 2					New V	alue 2						Cha	nged Value 2?	
Old Operator 1	=	New Opt. 1	=	Change	ed Opt.	1? N	Old	Opt. 2		New Opt	. 2	CI	nanged Opt. 2?	
Old Condensed Impact	d	Thunde	erstorm		1		ed		Thund	erstorm		1	•	d N
Old Full Impact	Any	occurrence of	thunderst	orms cu	rtail airc	raft and	l refue	ling op	erations	due to s	afety c	onsidera	tions.	
New Full Impac			thunderst	orms cu	rtails re	fueling	operat	ions a	nd require	s flight	away fi	rom prox	imity resulting	in
Old Source	(1st Ca	valry Division,	1992);									Changed	Full Impact?	Y
New Source/ Reason for Delete				eb 1997										
Comments														
ID # 90 Sy	stem Na	ıme		CH-	47D				Rule 1#	33	Rule 2	2#	Delete Rule	? N
Old Color	1!	New Color	1							(	Change			
Parameter 1 #	11			hail		_		<u></u>		Hail			_	
Parameter 2 #		Old Param. 2 ID				_	aram.	2 ID					-	
Old Value 1		1							yes			Cha	nged Value1?	Y
Old Value 2													_	
Old Operator 1	' <u> </u>	New Opt. 1	=	Chang	ed Opt.	1? N	Old	Opt. 2	<u> </u>	New Opt	. 2			
Old Condense Impact	d	Н	ail				ed		Н	ail			•	d N
Old Full Impact	Any	occurrence of	hail produ	ıces haz	ardous	weather	cond	itions a	and reduc	es oper	ational	capabilit	ies.	
New Full Impac	t Any	occurrence of	hail produ	uces haz	ardous	weather	cond	itions a	and reduc	es oper	ational	capabili	ies.	
Old Source	(1st Ca	ıvalry Division,	1992);				-					Change	f Full Impact?	N
New Source/ Reason for Delete	FM 1-2	30, Para 12-7, S	Sep 1982											
Comments														
Changed Source	ce?	Y		Are Th	ere Any	(2) Opti	ons?	N	]		P	Any Chan	ge to Record?	Y

					<u> </u>	WED	A Sy	stem	Rul	es						
ID # 91	Syste	m Name			CH-47	D				Rule 1#	56	Rui	e 2 # [		Delete Ruie	? N
Old Color [	2	New	Color 1									Chan	ged Co	lor?	Y	
Parameter 1	# [	10 Old	Param. 1 ID	fre	ezingrain		New F	aram. 1	1 ID[	Fre	ezing	Rain		Cha	nged Param.	1? N
Parameter 2	2#	Old	Param. 2 ID				New P	aram. 2						Cha	nged Param.	2?
Old Value 1	ı 🗀		0		] •	New Va	alue 1			None				Chanç	ged Value1?	Υ
Old Value 2	2				]	New Va	alue 2							Chanç	ged Value 2?	
Old Operato	or 1 📗	> N	lew Opt. 1	>	Changed	Opt. 1	? N	Old C	)pt. 2	N	lew Op	ot. 2		Cha	anged Opt. 2?	,
Old Conder Impact	nsed		Freezin	g Rain		New C Impact	ondens t	ed		Light Free	zing R	Rain	,	Chang Impac	ged Condense tt?	ed Y
Old Full Imp	act	Any occ	urrence of f	reezing ra	ain delays	missio	on laun	ch beca	ause	exposed a	ircraft	must	be deid	ed.		
New Full Imp	pact	Any occ	urrence of f	reezing ra	ain delays	missic	on laun	ch beca	ause	exposed a	ircraft	must	be deid	ed.		
Old Source	(1s	t Cavalry	Division, 1	992);			·						Cha	nged F	Full Impact?	N
New Source Reason for Delete	TM	55-1520	-240-10, Par	a 5-36, Fe	eb 1997											
Comments	TM	only ref	ers to gener	ic freezin	g rain and	does	not dis	cuss ex	ceed	ling aircraf	t deici	ng ca	pability	·.		
Changed So	urce?	Υ			Are There	Any (	2) Optic	ns?	N	1			Any C	hange	to Record?	Y
ID# 92	Syster	n Name			CH-471	<u> </u>				Rule 1#	60	Rule	2#		Delete Rule	? N
Old Color	1	New (	Color 1									Chan	ged Col	or?	N	
Parameter 1	# 1	7 Old F	Param. 1 ID		snow		New P	aram. 1	ID[		Snow			Char	nged Param. 1	1? N
Parameter 2	#	Old F	Param. 2 ID				New P	aram. 2	ID					Char	nged Param. 2	2?
Old Value 1			0		_ N	lew Va	lue 1			None			(	Chang	ed Value1?	Y
Old Value 2	!				J	lew Va							(	Chang	ed Value 2?	
Old Operato	or 1	> N	ew Opt. 1	>	Changed	Opt. 1'	? N	Old O	pt. 2	N	lew Op	t. 2		Cha	inged Opt. 2?	
Old Conden Impact	ised		Sno	w	- 1	New Co Impact	ondens	ed		Sno	ow			Chang Impact	ed Condense t?	d N
Old Full Impa	act	Any occ	urrence of s	nowfall p	roduces h	azardo	us wea	ther co	onditi	ons and re	duces	opera	ational	capab	oilities.	
New Full Imp	oact	Any occ	urrence of s	nowfall p	roduces h	azardo	ous wea	ther co	onditi	ons and re	duces	opera	ational	capab	oilities.	
Old Source	(1s	t Cavalry	Division, 1	992);									Char	nged F	Full Impact?	N
New Source/ Reason for Delete	/ <b>TM</b>	55-1520-	240-10, Par	a 5-36 & 8	-65, Feb 1	997										
Comments																
Changed So	urce?	Y			Are There	Any (	2) Optio	ns?	N				Any C	hange	to Record?	Y

	Old Param. 2   D											
ID # 93 Sy	System Name CH-47D Rule 1 # 62 Rule 2 # Delete Rule? N  1 New Color 1 Changed Color? N  1 # 1 Old Param. 1 ID blowingsand New Param. 1 ID Blowing Sand Changed Param. 1? N  2 # Old Param. 2 ID New Value 1 Yes Changed Value? Y  2 * New Value 1 Yes Changed Value? Y  2 * Changed Value? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Value 2?  3 * Stort 1 = New Opt. 1 = Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2?  4 * Any occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  4 * Any occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  5 * Changed Full Impact? N  6 * Changed Full Impact? N  6 * Changed Full Impact? N  7 * Are There Any (2) Options? N  8 * Any Change to Record? Y  8 * System Name CH-47D Rule 1 # 68 Rule 2 # Delete Rule? N  9 * System Name CH-47D Rule 1 # 68 Rule 2 # Delete Rule? N  1 * 2 New Color 2											
Old Color	System Name  CH-47D  Rule 1 # 62 Rule 2 # Delete Rule? N  Changed Color? N  or 1 New Color 1 New Color 1 New Param. 1 ID Blowing Sand Changed Param. 1? N  or 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 1? N  or 2 # Old Param. 2 ID Changed Param. 2 ID Changed Param. 1? N  or 2 # Old Param. 2 ID Changed Value 1 Yes Changed Value 1? Ye  or 2 New Value 1 Yes Changed Value 2? Changed Value 2?  rator 1 = New Opt. 1 = Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Indensed Blowing Sand Inpact  Any occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  Any occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  Changed Full Impact? N  occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  Changed Full Impact? N  occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult. Use of triple hook cargo system may be degraded, scheduled maintenance increased.  Changed Full Impact? N  occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult.  Occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult.  Occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult.  Occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult.  Occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or landing difficult.  Occurrence of blowing sand, dust, or volcanic ash reduces visibility & will make hovering &/or											
Parameter 1 #	1 0	d Param. 1 ID	blow	vingsand	New P	aram. 1 ID	Blo	wing Sa	nd	Char	nged Param.	1? N
Parameter 2 #	OI	d Param. 2 ID			New P	aram. 2 ID				Char	nged Param.	2?
Old Value 1		1		New V	alue 1		Yes			Chang	ed Value1?	Y
Old Value 2				New V	alue 2					Chang	ed Value 2?	
Old Operator 1	1 =	New Opt. 1	=	Changed Opt.	1? N	Old Opt.	21	New Opt.	2	Cha	inged Opt. 2?	
Old Condense Impact	d	Blowing	g Sand			ed	Blowir	ng Sand				d N
Old Full Impact										g &/or	landing diffic	cult.
New Full Impac										g &/or	landing diffic	cult.
Old Source	(1st Cava	Irv Division. '	1992):						Ch	anged F	full Impact?	N
New Source/ Reason for Delete				, Feb 1983								
Comments												
Changed Source	ce? Y			Are There Any	(2) Optio	ons?	N		Any	Change	to Record?	Y
				CH-47D			Rule 1#	L				? N
L		L			] Nave 17		Confo		-		L	12 N
Parameter 1 #				swindspeed	_			e willa	Speeu	=	•	
Parameter 2 #	0			NowV	_	aram. 2 ID					_	
Old Value 1 Old Value 2		40				[	45 KIS.			_		
Old Value 2	1 -	Now Opt 1				Old Opt	2	Now Ont	<u> </u>		•	,
Old Condense		J		New (	Condens	<i>-</i>				 Chang	jed Condense	
Impact Old Full Impact	t Surfac	ce wind speed	ds > 45 kts			erating lim	its to take-o	ff.		impac	L?	
New Full Impac	ct Surfac	ce wind speed	ds > 45 kts	exceed the sys	tem ope	erating lim	its for take-	off/hove		-		
Old Source	(1at Care	In Division	1002\-						Ch	anged F	Full Impact?	Y
Old Source  New Source/ Reason for Delete		20-240-10, Pa		eb 1997	14.18.14.14.1							
Comments				,								
Changed Sour	ce? Y	]		Are There Any	(2) Option	ons?	N		Any	Change	to Record?	Υ

	2 # Old Param. 2 ID								
ID # 95 Syst	em Name		CH-47D			Rule 1 # 76	Rule 2#	Delete	Rule? N
Old Color 1	New Color	1					_ Changed (	Color? N	<u> </u>
Parameter 1 #	12 Old Param. 1 II	icin	gintensity	New Pa	ram. 1 ID	Icing Inte	nsity	Changed Par	am. 1? N
Parameter 2 #	Old Param. 2 ID	)		New Pa	ram. 2 ID			Changed Par	am. 2?
Old Value 1	0		New Va	alue 1		None		Changed Value	1? Y
Old Value 2			New Va	alue 2				Changed Value	2?
Old Operator 1	> New Opt. 1	>	Changed Opt. 1	? N	Old Opt. 2	New O	pt. 2	Changed Op	t. 2?
Old Condensed Impact	lcing	Aloft	1 .		d	Icing Aloft			ensed N
Old Full impact	Upper-level icing in	ntensity > ı	none may degrad	de perfor	mance.				
New Full Impact		ntensity > r	none may degrad	de perfor	mance if a	ircraft is flying b	etween (~ i	cing base) and (	~ icing
Old Source (1	Ist Cavalry Division,	1992);					Cł	nanged Full Impac	ct? Y
New Source/ Reason for Delete	M 55-1520-240-10, Pa	ra 5-36 & 8	3-86, Feb 1997						
Comments									
Changed Source?	? Y		Are There Any (	(2) Option	s? N		Any	Change to Recor	rd? Y
ID # 96 Syste	em Name		CH-47D			Rule 1 # 77	Rule 2#	Delete F	Rule? N
		2			1	<b>L</b>	」 Changed C		
Parameter 1 #		icin	gintensity	New Pa	ram. 1 ID	Icing Inte			am. 1? N
Parameter 2 #		ļ			<u></u>				
Old Value 1			New Va	lue 1		Light			<u> </u>
Old Value 2			New Va	ilue 2					
Old Operator 1	> New Opt. 1	>	Changed Opt. 1	? N	Old Opt. 2	New Or	ot. 2	_	
Old Condensed Impact		Aloft	New C	ondense				Changed Conde	
Old Full Impact	IAW AR 95-1, aircra	ift cannot f	ly into areas of i	cing inte	nsity > ligh	nt.			
New Full Impact			of icing intensity	> light,	known or f	orecast if flight I	evel is betv	veen (~ icing bas	e) and ~
Old Source (1	st Cavalry Division,	1992);					Ch	anged Full Impac	:t?
Comments		•						,	
Changed Source?	· Y		Are There Any (2	2) Option	s? N	]	Any	Change to Recor	rd? Y

	# Old Param. 2 ID New Param. 2 ID Changed Param. 2?   1 New Value 1 Light Changed Value 1? Y New Value 2 Changed Value 2? Changed Value 2?  or 1 New Opt. 1 > Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Sed Turbulence Aloft Impact Impact  act Upper-level turbulence > light intensity degrades flying safety.  Upper-level turbulence > light intensity degrades flying safety if aircraft is flying between (~ turbulence base) and (~ Turbulence tops) feet AGL.  Changed Full Impact? Y  (1st Cavalry Division, 1992);  TM 55-1520-240-10, Para 8-82, Feb 1997  System Name CH-47D Rule 1 # 80 Rule 2 # Delete Rule? N  2 New Color 2 Changed Color? N  # 24 Old Param. 1 ID turbulenceintensity New Param. 1 ID Turbulence Intensity Changed Param. 1? N  # Old Param. 2 ID New Param. 2 ID Changed Param. 2?  New Value 1 Moderate Changed Value 1? Y  New Value 2 Changed Value 2? Changed Value 2? On 1 New Opt. 1 Changed Opt. 2? Impact New Opt. 2 Changed Condensed Impact?															
ID# 97 Syste	m Name			CH-4	7D				Rule 1#	79	Rule	e 2 # [		Delete Rule	? [	N
Old Color 1	New	Color 1									Chan	ged Co	olor?	N		
Parameter 1 #	24 Old i	Param. 1 ID[	turbule	enceinter	sity	New P	aram. 1		Turbu	lence Ir	tensi	ty	Chai	nged Param.	1?[	N
Parameter 2 #	Old I	aram. 2 ID				New P	aram. 2	ID					Chai	nged Param.	2?[	
Old Value 1		1			New Va	alue 1			Light				Chang	ged Value1?	[	Y
Old Value 2					New Va	alue 2							Chang	ged Value 2?	Ī	
Old Operator 1	> N	ew Opt. 1	>	Change	d Opt. 1	? N	Old O	pt. 2		New Op	t. 2		Cha	anged Opt. 2	?	司
Old Condensed Impact		Turbulen	ce Aloft				ed [		Turbule	nce Alc	ft				ed [	N
Old Full Impact	Upper-le	vel turbuler	nce > light	t intensit	y degra	ıdes flyi	ng safe	ty.							•	
New Full Impact				t intensit	y degra	ides flyi	ng safe	ty if a	ircraft is	flying b	etwe	en (~ ti	urbule	nce base) ar	nd (~	
Old Source (1	st Cavain	Division. 1	992):									Cha	anged f	Full Impact?	•	Y
	<del>-</del>			b 1997												
Comments																
Changed Source?	Y			Are The	re Any	(2) Optio	ns?	N	]			Any C	Change	to Record?		Y
		Color 2		CH-4	7D				Rule 1 #	80	J	L	olor?		? [	N
Parameter 1 #	24 Old	Param. 1 ID[	turbule	enceinte	nsity	New P	aram. 1	ID_	Turbu	lence Ir	ntensi	ty	Cha	nged Param.	1?[	N
Parameter 2 #	Old	Param. 2 ID∫				New P	aram. 2	ID					Cha	nged Param.	2?	
Old Value 1		2			New V	alue 1			Moderate				Chang	ged Value1?		Y
Old Value 2					New V								Chang	ged Value 2?		
Old Operator 1	> 1	lew Opt. 1	>	Change	d Opt. 1	1? N		pt. 2		New Op	t. 2		Cha	anged Opt. 2	? [	
Old Condensed Impact		Turbulen	ce Aloft				ed	Se	evere Turi	oulence	Aloft				ed [	Υ
Old Full Impact	Upper-le	vel turbuler	nce > mod	derate int	ensity	exceeds	safe o	perat	ing limits	•						
New Full Impact		evel turbuler lence base)						perat	ing limits	. Aircra	aft pro	hibite	d from	n flying betw	een	
Old Source (1	st Cavaln	y Division, 1	992);									Cha	anged I	Full Impact?		Y
New Source/	M 55-1520	)-240-10, Par ara 5-2d(2), I	ra 8-82, Fe	eb 1997												
Comments																
Changed Source?	? <b>Y</b>			Are The	ere Any	(2) Opti	ons?	N				Any (	Change	e to Record?		Υ

	Old Param. 2 ID  New Param. 2 ID  Changed Param. 2?  101  10000  New Value 1  Changed Value 1?  Changed Value 2?  ator 1 > New Opt. 1  Changed Opt. 1?  Old Opt. 2  New Opt. 2  Changed Opt. 2?  Changed Opt. 2?  Changed Opt. 2?  Changed Condensed  Impact  Density Altitude												
ID # 99	Sys	tem Nam	e		CH-47D			Rule 1 #	87	Rule 2#		Delete Rule?	? <b>Y</b>
Old Color	2	Ne <sup>-</sup>	w Color							Changed (	Color?		
Parameter 1	1#	5 0	d Param. 1 ID	den	sityaltitude	New P	Param. 1 II	D			Cha	anged Param. 1	!?
Parameter 2	2 #	OI	d Param. 2 ID			New P	Param. 2 II	D			Cha	anged Param. 2	2?
Old Value	1 [		10000		] New V	/alue 1					Chan	iged Value1?	
Old Value	2				New V	/alue 2					Chan	iged Value 2?	
Old Operat	or 1	>	New Opt. 1		Changed Opt.	1?	Old Opt	. 2 N	lew Op	t. 2	Ch	anged Opt. 2?	
Old Conde Impact	nsed		Density /	Altitude			ed						d _
Old Full Imp	act	Densi	ty altitude > 10	),000 feet	exceeds the ma	aximum	payload I	lift capability.					
New Full Im	pact												
Old Source	(	1st Cava	Iry Division, 1	992);						CI	nanged	Full Impact?	
New Source Reason for Delete			lle: This is too	restrictiv	e. Pilot has opt	ions. De	elete as a	red condition	. It is ii	ncluded in	yellow	condition (>	5000
Comments													
Changed So	ource	? Y		,	Are There Any	(2) Optic	ons?	N		Any	Chang	e to Record?	Υ
ID# 100	Syst	tem Name	•		CH-47D			Rule 1#	88	Rule 2#		Delete Rule?	N
Old Color [	1	Nev	w Color 1							Changed C	Color?	N	
Parameter 1	#	5 Ok	d Param. 1 ID	dens	ityaltitude	New P	aram. 1 IE	Dens	ity Alti	tude	Cha	inged Param. 1	? N
Parameter 2	2#	010	d Param. 2 ID[			New P	aram. 2 ID				Cha	anged Param. 2	?
Old Value 1			5000		New V	alue 1		5000 ft.			Chan	ged Value1?	N
Old Value 2	2				New V	alue 2					Chan	ged Value 2?	
Old Operate	or 1	>	New Opt. 1	>	Changed Opt.	1? N	Old Opt.	. 2 N	ew Opt	. 2	Ch	anged Opt. 2?	
Old Conder Impact	nsed		Density A	Altitude	New 0	Condens t	ed	High Densi	ty Altit	ude	Chan Impa	ged Condensed ct?	d Y
Old Full Imp	act	Densit	y altitude > 50	00 feet de	ecreases lift cap	ability.	Aircraft p	ayload may b	e redu	ced.			
New Full Imp	pact	Densit	y altitude > 50	00 feet de	ecreases lift cap	pability.	Aircraft p	ayload may b	e redu	ced.			
Old Source	7	1st Cava	lry Division, 1	9921.	-					Ch	anged	Full Impact?	Y
New Source Reason for Delete	/   1	M 55-152	20-240-10, Par Para 5-8, Sep	a 8-73, Fe	b 1997								
Comments	ſ												
Changed So	urce	? Y			Are There Any	(2) Optio	ons?	N		Any	Change	e to Record?	Υ

#### **IWEDA System Rules** ID# 101 System Name **CH-47D** Rule 1# 106 Delete Rule? Rule 2# 106 Old Color **New Color** Changed Color? N Parameter 1 # 4 Old Param. 1 ID cloudcover New Param. 1 ID **Cloud Cover** Changed Param. 1? N Old Param. 2 ID cloudbase New Param. 2 ID Parameter 2 # Cloud Base Changed Param. 2? N 0 Changed Value1? Old Value 1 New Value 1 None Υ Old Value 2 300 New Value 2 300 Ft. Changed Value 2? Ν N Changed Opt. 1? N Old Operator 1 New Opt. 1 Old Opt. 2 <= New Opt. 2 Changed Opt. 2? Old Condensed Clouds **New Condensed** Very Low Clouds Changed Condensed Υ Impact Impact Impact? Old Full Impact Cloud base <= 300 feet reduce mobility and effectiveness. Cloud base <= 300 feet reduce mobility and effectiveness. New Full Impact Changed Full Impact? N Old Source (1st Cavalry Division, 1992); Interview with Mr. Michael Sloan, CH47 Flight Instructor, Aviation Support Facility, Felker Army Airfield, Ft. Eustis, VA, New Source/ Reason for Aug 1997 Delete Comments Y Υ Changed Source? Are There Any (2) Options? Υ Any Change to Record? Rule 2 # 112 ID# 102 CH-47D Rule 1 # 112 Delete Rule? N System Name Old Color New Color Changed Color? Ν Parameter 1 # Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N Parameter 2 # Old Param. 2 ID blowingsand New Param. 2 ID **Blowing Sand** Changed Param. 2? N Old Value 1 5000 New Value 1 5000 meters Changed Value 1? N Υ Old Value 2 1 New Value 2 Yes Changed Value 2? N N Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? **Blowing Sand and Reduced** Old Condensed **New Condensed Blowing Sand** Changed Condensed Impact Visibility Impact Impact? Any occurrence of blowing sand and visibility < 3.1 miles (5000 m) reduces the operational distance. Old Full Impact New Full Impact Any occurrence of blowing sand and visibility < 3.1 miles (5000 m) reduces the operational distance. N Changed Full Impact? (1st Cavalry Division, 1992); Old Source New Source/ FM 1-202, Para 2-6, 2-13 thru 2-16, Feb 1983 Reason for Delete Comments Υ Υ Υ Changed Source? Are There Any (2) Options? Any Change to Record?

				IWED	OA Sy	stem Ru	iles					
ID # 103 S	System N	lame	CH.	APARREL			Rule 1#	55	Rule 2#		Delete Rule	? N
Old Color	1	New Color 1							Changed (	Color?	N	
Parameter 1	# 10	Old Param. 1 ID	freezin	grain	New F	aram. 1 ID	Free	ezing F	Rain	Cha	anged Param.	1? N
Parameter 2	#	Old Param. 2 ID			New P	aram. 2 ID				Cha	anged Param.	2?
Old Value 1		1		New V	alue 1		Light			 Chan	ged Value1?	Y
Old Value 2				New V	alue 2					Chan	ged Value 2?	
Old Operator	r 1 >	New Opt. 1	> Ch:	anged Opt. 1	!? N	Old Opt. 2	2 N	lew Opt	t. 2	Ch	anged Opt. 2?	
Old Condens Impact	sed	Freezin	g Rain	New C Impac	Condens t	ed	Freezin	g Rain		Chan Impa	ged Condense	ed N
Old Full Impa	ct Fre	eezing rain > light	may freeze th	ne missile to	the lau	ıncher rails	and reduce	s the c	verall sys	tem eff	ectiveness.	
New Full Impa	act Fre	eezing rain > light	may freeze th	ne missile to	the lau	incher rails	and reduce	s the c	overall sys	tem eff	ectiveness.	
Old Source	(1st C	avalry Division, 1	992).				7		Cł	nanged	Full Impact?	N
New Source/ Reason for Delete	-	-81-1, Appendix E		· · · · · · · · · · · · · · · · · · ·	•							
Comments								· · · · · · · · · · · · · · · · · · ·				一
Changed Sou	irce?	Y	Are	There Any (	(2) Optic	ons? N	V		Any	Chang	e to Record?	Y
ID# 104 S	System N	ame	СН	APARREL			Rule 1 # [	57	Rule 2#		Delete Rule?	? <b>Y</b>
Old Color	2	New Color						(	Changed C	olor?		
Parameter 1 #	<b>#</b> 10	Old Param. 1 ID	freezinç	grain	New P	aram. 1 ID				Cha	nged Param. 1	?
Parameter 2 #	¥	Old Param. 2 ID			New P	aram. 2 ID				Cha	nged Param. 2	<u> </u>
Old Value 1		2		New Va	alue 1					Chan	ged Value1?	
Old Value 2				New Va	alue 2					Chan	ged Value 2?	$\Box$
Old Operator	1 >	New Opt. 1	Cha	anged Opt. 1	?	Old Opt. 2	. N	ew Opt	. 2	Ch	anged Opt. 2?	$\Box$
Old Condens Impact	sed	Freezing	g Rain	New C	ondens	ed				Chang	ged Condense	d
Old Full Impa	- 1	ezing rain > modectiveness.	erate freezes 1	the missile t	to the la	uncher rail	s and greatl	y redu	ces the ov	erali sy	/stem	
New Full Impa	act		-									
Old Source	(1st Ca	avalry Division, 1	992):				٦		Ch	anged	Full Impact?	
New Source/ Reason for Delete	Delete	Rule: FM 34-81-1 ed by ID# S103		6, Dec 1992	, refers	only mode	_ rate freezing	rain a	ind a mod	erate d	egradation.	
Comments										-		
Changed Sou	rce?	Y	Are	There Any (	2) Optio	ns? N	1		Any	Change	e to Record?	Y

	2   New Color   2   Changed Color?   N											
ID # 105 Sy	System Name DRAGON Rule 1 # 23 Rule 2 # Delete Rule? N  2 New Color 2											
Old Color	2 New	Color 2						Ch	anged Co	olor?	N	
Parameter 1 #	22 Old	Param. 1 ID	tem	perature	New P	aram. 1 ID	Ter	nperature	)	Char	nged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID		-	New P	aram. 2 ID				Char	nged Param. 2	2?
Old Value 1		145		New V	/alue 1		145 F			Chang	ed Value1?	N
Old Value 2				New V	/aiue 2					Chang	ed Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Changed Opt.	1? N	Old Opt. 2	N	ew Opt. 2		Cha	inged Opt. 2?	
Old Condense Impact	d	Но	t	1		ed	Extrem	e Heat		_		d Y
Old Full Impact	Temper	atures >= 14	5 F excee	d the maximum	n operati	ng tempera	ture of the	system.				
New Full Impac	Temper	atures >= 14	5 F excee	d the maximum	n operati	ng tempera	ture of the	system.				
Old Source	(1st Cavalr	v Division, 1	992);						Cha	anged F	full Impact?	N
New Source/ Reason for Delete	FM 23-34,	Para 4-91, Ap	or 1990									
Comments	Also, <= -2	5 F minimun	n Tempera	ture, visibility	< 1000 n	reduces et	fective ran	ge				
Changed Source	ce? Y			Are There Any	(2) Optio	ons? N			Any (	Change	to Record?	Y
ID # 106 Sy	stem Name			DRAGON			Rule 1#	64 F	Rule 2#			? N
Old Color	1 New	Color 1			_						L	
Parameter 1 #			surfac	ewindspeed	New P	aram. 1 ID	Surfac	e Wind S	peed			
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID			<u>_</u>	Char	nged Param. 2	??
Old Value 1		15		New \	/alue 1		15 kts.		╛	Chang	ged Value1?	N
Old Value 2				J		<u></u>						<u></u>
Old Operator 1	1 >	New Opt. 1	>=	J					<u> </u>			
Old Condense Impact	ed	Surface	Wind			ed	Surfac	e Wind		_	•	d N
Old Full Impact	Surface	wind speed	>= 15 kts	makes target t	tracking	more diffict	ult.					
New Full Impac	Surface	wind speed	>= 15 kts	makes target t	tracking	more difficu	ılt.					
							_		Ch	anged i	Full Impact?	N
Old Source		ry Division, 1										
New Source/ Reason for Delete	FM 23-34,	4-9, Apr 1990										
Comments												
Changed Source	ce? Y			Are There Any	/ (2) Opti	ons?	1	-	Any	Change	e to Record?	Υ

	Color   2   New Color   1																
ID # 107 S	ystem N	Name			EH-	60A				Rule 1#	15	Rule	2#		Delete Rul	e?	N
Old Color	2	New	Color	1								Chang	ged Co	lor?	Y		
Parameter 1 #	22	Old	Param. 1 ID	ter	mperatu	re	New F	Param.	1 ID	Minimur	n Tem <sub>l</sub>	peratu	ire	Cha	nged Param	. 1?	Y
Parameter 2 #	: [	Old	Param. 2 ID				New P	aram.	2 ID					Cha	nged Param	. 2?	
Old Value 1			-29			New V	alue 1			- 29 F				Chang	jed Value1?		N
Old Value 2						New V	alue 2						(	Chang	ged Value 2?	•	
Old Operator	1 <	= N	ew Opt. 1	<	Chang	ed Opt.	1? Y		Opt. 2	N	ew Opt	t. 2		Cha	anged Opt. 2	?	
Old Condense Impact	ed		Co	old				ed		Extrem	e Cold			Chang Impac	jed Condens t?	ed	Y
Old Full Impac	t Te	mpera	tures < -29	F exceed	l aircraft	operatir	ng limits	s with I	norma	l service.							
New Full Impa	ct Te	mpera	tures < -29	F exceed	l aircraft	operatir	ng limits	with r	norma	l service.							
Old Source	(1st C	avalry	Division,	1992);									Char	nged F	full Impact?		N
New Source/ Reason for Delete	TM 55	-1520	-237-10, Pa	ra 8-45, A	ug 1993			_									
Comments	Ambe	r beca	use the op	erating ex	cpectation	n would	l be that	speci	al ser	vicing is av	ailable	for c	old we	ather	operations		
Changed Sour	 ce?	Y			Are Th	ere Any	(2) Optic	ns?	N	]			Anv Cl	hange	to Record?		Y
ID # 108 Sy			Color 1		EH-	60A				Rule 1 # [			L	or?		e? [	N
Parameter 1 #	22	Old F	aram. 1 ID	ter	nperatu	·e	New P	aram. 1	מו ו	Ten	peratu	ıre		Chan	nged Param.	1?	N
Parameter 2 #		Old F	Param. 2 ID				New P	aram. 2	2 ID					Chan	iged Param.	2?	ᆿ
Old Value 1			100		]	New Va	alue 1			100 F		$\overline{}$		Chang	ed Value1?	Ī	N
Old Value 2					ĺ	New Va	alue 2						c	Chang	ed Value 2?	Ī	司
Old Operator	1 >=	= N	ew Opt. 1	>=	Change	ed Opt. 1	? N	Old C	pt. 2	Ne	ew Opt.	. 2		Cha	nged Opt. 2	? [	Ŧ
Old Condense Impact	ed		Н	ot		New C	ondense	ed		Very	Hot	11.0		Change mpact	ed Condens	ed [	Y
Old Full Impact	Te	mpera	tures >= 10	0 F degra	de aircr	aft perfo	rmance	•									
New Full Impac	ct Te	mpera	tures >= 1(	00 F degra	de aircr	aft perfo	rmance										
Old Source	(1st C	avalry	Division, 1	1992);									Chan	ged F	ull Impact?		N
New Source/ Reason for Delete			37-10, Para		1, Jun 19	996											
Comments																	
Changed Source	ce?	Y			Are The	ere Any (	(2) Optio	ns?	N				Any Ch	nange	to Record?		Y

922					IWED	A Sys	stem	Rule	es			4.0		
ID # 109 Syste	m Name			EH-6	0A				Rule 1#	32 F	Rule 2#	Dele	ete Rule?	N
Old Color 1	New	Color 1								Ch	anged C	olor? N		
Parameter 1 #	23 Old I	Param. 1 ID	thur	derston	n	New P	aram. 1	סו	Thu	ınderstorr	n	Changed	Param. 11	? N
Parameter 2 #	Old I	Param. 2 ID				New P	aram. 2	2 ID				Changed	Param. 21	?
Old Value 1		1			New Va	alue 1			yes			Changed V	alue1?	Y
Old Value 2					New Va	alue 2						Changed V	alue 2?	
Old Operator 1	= N	lew Opt. 1	=	Change	d Opt. 1	? N	Old C	pt. 2		New Opt. 2	!	Changed	l Opt. 2?	
Old Condensed Impact		Thunders	storm		New C Impac	ondens t	ed [		Thund	erstorm		Changed C Impact?	ondensed	N
Old Full Impact	Any occ	urrence of th	understo	rms cur	tail airc	raft and	refuel	ing op	perations	due to saf	ely cons	iderations.		
New Full Impact	Intentior	nal flight into	thunder	storms i	s prohil	oited. T	herefo	re, a d	lelay in co	mpletion	of a mis	sion may re	sult.	
Old Source (1	st Cavain	Division, 19	92):								Ch	inged Full Ir	npact?	Y
	<b>_</b>	-237-10, Para		ıg 1993	.,									
Comments														
Changed Source?	Y		, -	Are The	ere Any	(2) Optic	ons?	N			Any	Change to R	ecord?	Y
ID # 110 Syste	m Name			EH-6	0A				Rule 1#	L	Rule 2#		ete Rule?	N
Old Color 1	New	Color 1								Ch	anged C			
Parameter 1 #	<b>11</b> Old	Param. 1 ID		hail		New P	aram.	1 ID		Hail		Changed	Param. 1	? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	2 ID				Changed	Param. 2'	?
Old Value 1		1		]	New V	alue 1			Yes			Changed V	alue1?	Y
Old Value 2					New V	alue 2						Changed V	alue 2?	
Old Operator 1	= 1	lew Opt. 1	=	Change	ed Opt. 1	l? <b>N</b>	Old C	Opt. 2		New Opt. 2	2	Changed	d Opt. 2?	
Old Condensed Impact		Hail			New C Impac	Condens t	ed		Н	ail		Changed C Impact?	ondensed	N
Old Full Impact	Any occ	urrence of ha	ail produ	ces haza	rdous v	weather	condi	tions a	and reduc	es operati	ional cap	abilities.		
New Full Impact	Any occ	urrence of ha	ail produ	ces haza	ardous v	weather	condi	tions a	and reduc	es operati	ional cap	abilities.		
Old Source (1	st Cavair	y Division, 19	92);								Ch	anged Full I	mpact?	N
New Source/ Reason for Delete	M 1-230, F	Para 12-7, Sep	p 1982											
Comments														
Changed Source?	? Y			Are The	ere Any	(2) Optio	ons?	N			Any	Change to F	Record?	Y

							IWE	DA Sy	stem	ı Rui	les							
ID # 111	Syste	m Nar	me _			EH-6	0A				Rule 1 #	56	Rule	2#[		Delete Rui	e?	N
Old Color [	2	N	lew Cold	or 1									Chan	ged Co	lor?	Y		
Parameter 1	#	10	Old Para	am. 1 ID[	fre	reezingrain New Param. 1 ID					Fre	ezing F	Rain	Changed Param. 1?		1?	N	
Parameter 2	# [		Old Para	am. 2 ID		New Param. 2 ID									Changed Param. 2?		2?	
Old Value 1				0			New V	alue 1			None				Chang	jed Value1?	ĺ	Y
Old Value 2	2					]	New V	alue 2							Chang	jed Value 2?	· [	
Old Operate	or 1	>	New	Opt. 1	>	Change	d Opt.	1? N	Old	Opt. 2	N	lew Op	t. 2		Cha	anged Opt. 2	? [	
Old Conder Impact	nsed			Freezing	Rain		New 0	Condens ct	sed		Light Free	zing R	ain		Chang Impac	jed Condens t?	ed	Υ
Old Full Imp	act			ence of fr r delayed		in create	s icing	g condit	ions p	otenti	ally unsafe	for air	craft c	perati	ons. N	lissions ma	y be	•
New Full Imp	oact			ence of fr r delayed		in create	s icing	j condit	ions p	otentia	ally unsafe	for aire	craft c	perati	ons. N	lissions ma	y be	•
Old Source	(1:	st Cav	alry Di	vision, 19	92);									Cha	nged F	Full Impact?	[	N
New Source Reason for Delete				10, Para		2, Jun 19	96				J							
Comments																		뤼
Changed So	urce?	Y	<u></u>			Are The	re Any	(2) Optio	ons?	N				Any C	hange	to Record?		Y
ID # 112	Systei	m Nan	ne _			EH-6	0A				Rule 1 #	63	Rule	2#		Delete Ruie	? [	N
Old Color	1	N	ew Colo	or2				_					Chang	ed Col	_	Υ	_	
Parameter 1	# :	21 C	old Para	ım. 1 ID	surfac	ewindsp	eed	New P	aram.	1 ID	Surface	Wind	Spee	d	Char	nged Param.	1?	N
Parameter 2	#	c	old Para	ım. 2 ID				New P	aram.	2 ID					Char	iged Param.	2?	
Old Value 1				30			New Va	alue 1			45 kts.			(	Chang	ed Value1?		Y
Old Value 2							New Va							(	Chang	ed Value 2?		
Old Operato	or 1	>=	New	Opt. 1	>	Change	d Opt. 1	1? Y	Old	Opt. 2	N	ew Opt	. 2		Cha	nged Opt. 21	?	
Old Conden Impact	sed			Surface	Wind		New C Impac	Condens t	ed		Strong Sur	face W	ind		Chang Impact	ed Condense ?	ed	Y
Old Full Impa	act	Surfa	ice win	d speed >	> 30 kts c	legrades	the abi	ility to s	afely I	aunch	and recov	er airc	raft.					
New Full Imp	act	Wher	n surfac	e wind s	peed > 4	5 kts., ro	tors sh	ould no	t be st	arted	or stopped	•						
Old Source	(1s	t Cav	alry Div	rision, 19	92):									Char	nged F	ull Impact?		Y
New Source/ Reason for Delete				10, Para (		1996												
Comments																		$\neg$
Changed So	urce?	Y	<u> </u>			Are The	re Any	(2) Optic	ns?	N	]			Any C	hange	to Record?		Y

			IWEL	JA Sys	tem Rui	es						
ID # 113 Syste	m Name	El	1-60A			Rule 1 # 68	Rule 2#	ı	Delete Rule?	Y		
Old Color 2	New Color						Changed C	olor?				
Parameter 1 #	21 Old Param. 1 ID	surfacewing	Ispeed	New Pa	ram. 1 ID			Changed Param. 1?				
Parameter 2 #	Old Param. 2 ID			New Pa	ıram. 2 ID			Chang	ed Param. 2	?		
Old Value 1	45		New V	alue 1				Change	d Value1?	Ī		
Old Value 2			New V	alue 2				Change	d Value 2?			
Old Operator 1	> New Opt. 1	Char	nged Opt.	1?	Old Opt. 2	New O	pt. 2	Chan	ged Opt. 2?			
Old Condensed Impact	Surface	Wind	New 0	Condense t	ed			Changed	d Condensed	t		
Old Full Impact	Surface wind speed	> 45 kts exceed	ds the safe	e operati	ng limits to	launch and reco	over aircraft					
New Full Impact												
Old Source (1s	ot Cavalar Division 40	102).					Ch	anged Fu	Il Impact?			
	st Cavalry Division, 19 elete Rule: Replaced b		nce. See r	rule ID# 1	13							
Comments												
Changed Source?	Y	Are 7	There Any	(2) Option	ns? N	]	Any	Change to	o Record?	Y		
10 # 444 0		\$=1	1.004				7.5.1.6%					
ID # 114 Syste Old Color 1	m Name New Color 1	E	H-60A			Rule 1 # 77	Rule 2 # Changed C		Delete Rule?	N		
Parameter 1 #	12 Old Param. 1 ID	icinginter	nsity	New Pa	ıram. 1 ID	Icing Inte	nsity	Chang	ed Param. 1	? N		
Parameter 2 #	Old Param. 2 ID			New Pa	ıram. 2 ID			Chang	ed Param. 2	?		
Old Value 1	1		New V	alue 1		Trace		Change	d Value1?	Y		
Old Value 2			New V	alue 2				Change	d Value 2?	M		
Old Operator 1	> New Opt. 1	>= Char	nged Opt.	1? <b>Y</b>	Old Opt. 2	New O	pt. 2	Chan	ged Opt. 2?	Ħ		
Old Condensed Impact	Icing A	loft	New 0	Condense ct	ed	Icing Aloft		Changed	d Condensed	d N		
Old Full Impact	Upper-level icing into	ensity > light m	nay degrad	de perfor	mance.							
New Full Impact	Flight into icing inter flight level is betwee					equipped with	deice and a	nti-ice ca	pabilities. If			
Old Source (1:	st Cavalry Division, 19	992);					Ch	anged Fu	Il Impact?	Y		
New Source/ Reason for Delete	// 55-1520-237-10, Para		6									
Comments												
Changed Source?	Y	Are '	There Any	(2) Optio	ns? N	]	Any	Change to	o Record?	Y		

### **IWEDA System Rules** ID# 115 System Name EH-60A Rule 1# 78 Rule 2# Delete Rule? Old Color 2 **New Color** 2 Changed Color? N Parameter 1 # 12 Old Param. 1 ID icingintensity New Param. 1 ID Icing Intensity Changed Param. 1? N Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 2 New Value 1 Moderate Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Icing Aloft **New Condensed** Severe Icing Aloft **Changed Condensed** Impact Impact Impact? IAW AR 95-1, aircraft cannot fly into areas of icing intensity > moderate. Old Full Impact New Full Impact Flight into icing intensity > Moderate is prohibited. If flight level is between (~lcing Base) and (~lcing Top) feet AGL. Y Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ TM 55-1520-237-10, Para 5-28, Oct 1996 Reason for Delete Comments N Y Y Are There Any (2) Options? Changed Source? Any Change to Record? EH-60A ID# 116 System Name Rule 1# 79 Rule 2# Delete Rule? N Y **New Color** Changed Color? Old Color Old Param. 1 ID turbulenceintensity New Param, 1 ID **Turbulence Intensity** Changed Param. 1? N Parameter 1 # Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Moderate Old Value 1 1 New Value 1 Changed Value1? Υ Old Value 2 New Value 2 Changed Value 2? N Old Opt. 2 Changed Opt. 1? Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 **Turbulence Aloft** Old Condensed **New Condensed** Severe Turbulence Aloft Changed Condensed Impact Impact Impact? Old Full Impact Upper-level turbulence > light intensity degrades flying safety. Intentional flight into > moderate turbulence is prohibited. If flight level is between (~ turbulence base) and (~ New Full Impact turbulence top) feet AGL. Changed Full Impact? Υ Old Source (1st Cavalry Division, 1992); New Source/ TM 55-1520-237-10, Para 5-33a, Oct 1996 Reason for Delete Comments Changed Source? Υ Are There Any (2) Options? Ν Any Change to Record?

		IWEDA Sy	stem Rule	es	
ID# 117 System	n Name	EH-60A		Rule 1 # 80 Rul	e 2 # Delete Rule? N
Old Color 2	New Color 1			Chan	ged Color? Y
Parameter 1 # 2	4 Old Param. 1 ID turbule	enceintensity New P	aram. 1 ID	Turbulence Intens	ity Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New P	aram. 2 ID		Changed Param. 2?
Old Value 1	2	New Value 1		none	Changed Value1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1? N	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Turbulence Aloft	New Condens Impact	ed	Turbulence Aloft	Changed Condensed N Impact?
Old Full Impact	Upper-level turbulence > mod	lerate intensity exceeds	operating li	mits.	
	Upper level turbulence, > non (~turbulence base) and (~turb		and delay m	ission completion. If f	
Old On.	. O				Changed Full Impact?
· [	t Cavalry Division, 1992); 55-1520-237-10, Para 43-2, Oc	et 1996			
Comments					
Changed Source?	Y	Are There Any (2) Option	ons? N		Any Change to Record?
ID # 118 System	n Name	EH-60A		Rule 1 # 85 Rul	le 2 # Delete Ruie? N
Old Color 1	New Color 1			Char	nged Color? N
Parameter 1 # 1	3 Old Param. 1 ID press	surealtitude New F	Param. 1 ID	Pressure Altitude	e Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New F	Param. 2 ID		Changed Param. 2?
Old Value 1	5000	New Value 1		5000 ft.	Changed Value1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1? N	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Pressure Altitude	New Condens Impact	ed H	ligh Pressure Altitude	Changed Condensed Y Impact?
Old Full Impact	Operating performance of rot	ary wing aircraft is dec	reased when	operating at pressure	altitudes > 5000 ft.
New Full Impact	Operating performance of rot	ary wing aircraft is dec	reased when	operating at pressure	altitudes > 5000 ft.
Old Source (1s	t Cavalry Division, 1992);				Changed Full Impact?
	1-1520-237-10, Chapter 7, Jul 1-230, Para 5-8, Sep 1982	n 1996			
Changed Source?	<b>Y</b> .	Are There Any (2) Opti	ons? N	]	Any Change to Record? Y

			IWEDA S	ystem Ru	ules								
ID # 119 Syste	m Name	EH-6	60A		Rule 1#	86	Rule 2#	Dele	ete Rule?	Y			
Old Color 2	New Color					c	hanged Co	lor?					
Parameter 1 #	13 Old Param. 1 ID	pressurealtitu	ıde Nev	Param, 1 ID				Changed I	Param. 1?				
Parameter 2 #	Old Param. 2 ID		New	Param. 2 ID				Changed I	Param. 2?	$\overline{\Box}$			
Old Value 1	10000		New Value 1					Changed Va	alue1?	一			
Old Value 2			New Value 2					Changed Va	alue 2?	$\sqcap$			
Old Operator 1	> New Opt. 1	Change	ed Opt. 1?	Old Opt.	2 N	ew Opt.	2	Changed	Opt. 2?	一			
Old Condensed Impact	Pressure Al	titude	New Conde Impact	nsed				Changed Co Impact?	ondensed				
Old Full Impact	Operating performanc 10,000 ft. Actions may						ating at pre	essure altitu	udes >				
10,000 ft. Actions may be required to reduce payload or fuel to retain lift capability.  New Full Impact													
Old Source (1s	st Cavalry Division, 199	2):			7		Char	nged Full Im	ipact?				
New Source/ De	elect Rule: This is too r		ed condition	pilot has op	otions. This i	s includ	ed in > 500	00 ft. as an	amber				
Comments										司			
Changed Source?	Y	Are The	ere Any (2) Op	itions?	N		Any C	hange to Re	ecord?	Υ			
ID # 120 System	m Name	EH-6	0A		Rule 1#	87	Rule 2#	Dele	te Rule?	Y			
Old Color 2	New Color					 CI	hanged Col	or?					
Parameter 1 #	5 Old Param. 1 ID	densityaltitud	de New	Param. 1 ID				Changed F	Param. 1?				
Parameter 2 #	Old Param. 2 ID			Param. 2 ID				Changed F	Param. 2?				
Old Value 1	10000		New Value 1					Changed Va	ılue1?				
Old Value 2			New Value 2				= (	Changed Va	lue 2?	司			
Old Operator 1	> New Opt. 1	Change	d Opt. 1?	Old Opt. 2	2 Ne	ew Opt. 2	2	Changed	Opt. 2?	言			
Old Condensed Impact	Density Alti		New Conde			-		Changed Co mpact?					
Old Full Impact	Density altitudes > 10,0	000 ft exceeds r	naximum pay	load capabi	lity.								
New Full Impact													
Old Source (1s	t Cavalry Division, 199	21.			7		Char	nged Full Im	pact?				
L	lete Rule: Too restrictiv		ions. Warnin	g included ir	 n rule ID# 121								
Comments								<u> </u>					
Changed Source?	Y	Are The	re Any (2) Op	tions?	N		Any Cl	nange to Re	cord?	Y			

IWEDA System Rules															
ID # 121 System	Name		_	EH-6	0A				Rule 1#	88	Rule	2#		Delete Rule?	N
Old Color 1	New	Color 1									Chang	ged Co	lor?	N	
Parameter 1 # 5	Old	Param. 1 ID	dens	ityaltitu	de	New P	aram.	1 ID[	Dens	ity Alt	itude		] Cha	nged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. :	2 ID					Cha	nged Param. 2	?
Old Value 1		5000			New Va	alue 1			5000 ft.				- Chang	ged Value1?	N
Old Value 2					New Va	alue 2							Chang	ged Value 2?	
Old Operator 1	> 1	lew Opt. 1	>	Change	ed Opt. 1	? N	Old (	Opt. 2		lew Op	t. 2		Cha	anged Opt. 2?	
Old Condensed Impact		Density A	ltitude		New C Impac	Condens t	ed	i	ligh Dens	ty Alti	tude		Chang Impac	ged Condensed t?	Y
Old Full Impact	Density	altitudes > 5	000 ft app	oroach o	ptimal l	lift capa	bility (	of helio	copters re	sulting	in rec	luced	paylo	ad.	
New Full Impact Density Altitude > 5000 ft decreases lift capability, payload may be reduced.															
Old Source (1st	Cavair	y Division, 1	9921:			-						Cha	nged	Full Impact?	Y
		Para 5-8, Sep													
Comments															
Changed Source?	Y			Are The	ere Any	(2) Optio	ons?	N				Any C	Change	to Record?	Y
ID # 122 System	n Name			EH-6	SOA AOS				Rule 1#	106	Rule	2#[	106	Delete Rule?	N
Old Color 1	_	Color 1									J	ged Co		N	
		Param, 1 ID		oudcove	r	New P	aram.	1 !D	Ci	oud Co	over		Cha	nged Param. 1	? N
<u></u>	3 Old	Param. 2 ID	cl	oudbase	)	New P		_	CI	oud B	ase		Cha	nged Param. 2	? N
Old Value 1		0		1	New V	_			3/8				_ Chan	ged Value1?	Y
Old Value 2		300		]	New V	alue 2	300 F	t.					Chan	ged Value 2?	N
Old Operator 1	>	New Opt. 1	>	Change	ed Opt.	1? N	Old	Opt. 2	<= !	New Op	ot. 2	<=	Ch	anged Opt. 2?	N
Old Condensed Impact		Clou	ıds		New (	Condens	ed		Very Lo	v Clou	ds		Chan Impa	ged Condense ct?	d Y
Old Full Impact	Cloud I	pases <= 300	feet degr	ade mol	oility an	d effecti	ivenes	s.							
New Full Impact	Cloud	eilings <= 30	00 feet de	grade m	obility a	and effe	ctiven	ess.							
,												Cha	anged	Full Impact?	Y
<u> </u>		y Division, 1		<b>-</b> 11 1 1 1		05	£ A	War 4		hasts:	ne Dire	ala-	Eolles-	Army Airfield	E+
		vith Mr. Johi , Aug 1997	n Benham	, Flight I	instruct	or, Chie	t AVIa	tion A	ppilea lec	nnoio	gy טוע	sion,	reikei	Army Airfield	I, FL
Comments															
Changed Source?	Y			Are Th	ere Any	(2) Opti	ons?	Υ				Any	Chang	e to Record?	Y

						IWEL	DA Sy	ster	n Rul	es								
ID# 123 Sy	/stem Na	ame			F-11	11G				Rule 1	#	32	Ru	le 2 # [		Delete Rul	e?	Y
Old Color	1 1	New Colo	r								_	(	Char	nged Co	olor?			ш
Parameter 1 #	23	Old Para	m. 1 ID	thur	ndersto	rm	New I	Param	. 1 ID						Chai	nged Param	. 1?	
Parameter 2 #		Old Para	m. 2 ID				New I	aram	. 2 ID						Chai	nged Param	. 2?	П
Old Value 1			1			New V	alue 1								Chang	ed Value1?	Ì	一
Old Value 2						New V	alue 2								Chang	ed Value 2?	,	
Old Operator 1	1 =	New	Opt. 1		Change	ed Opt. 1	1?	Old	Opt. 2		Nev	v Opt.	2		Cha	nged Opt. 2	? [	
Old Condense Impact	d	,	Thunders	storm		New Co	Conden: t	sed							Chang Impac	ed Condens	ed	
Old Full Impact	Thu	ınderstor	ms may	cause mi	ission d	elays ar	nd limit	areas	where	aircraft	can	орега	te e	ffective	ely.			
New Full Impac	at _																	ᅱ
,																		
	L									<del></del>				Cha	nged F	uil Impact?	[	$\dashv$
Old Source	(1st Ca	valry Div	rision, 19	92);										Ona	ngca i	un impuot:	Ĺ	i
New Source/ Reason for Delete	Delete	Rule: No	longer i	in invento	ory													
Comments																		$\equiv$
Changed Source	æ? [	Υ	8, i , i i a		Are The	ere Any (	(2) Opti	ons?	N					Any C	hange	to Record?		Y
ID# 124 Sys	stem Na	ame			F-11	1G				Rule 1	# [ {	56	Rul	e 2 # [		Delete Rule	∍? [	Y
Old Color	2 1	New Colo	r									C	han	ged Co	lor?			
Parameter 1 #	10	Old Para	m. 1 ID	free	zingrai	n	New F	aram.	1 ID						Char	ged Param.	1?[	
Parameter 2 #		Old Para	m. 2 ID				New F	aram.	2 ID						Chan	ged Param.	2?	
Old Value 1			0			New Va	alue 1								Chang	ed Value1?		
Old Value 2						New Va	alue 2								Chang	ed Value 2?		
Old Operator 1	>	New (	Opt. 1		Change	ed Opt. 1	?	Old	Opt. 2		New	Opt.	2		Cha	nged Opt. 2	? [	
Old Condensed Impact	d	I	Freezing	Rain		New C	ondens t	ed							Chang Impact	ed Condens ?	ed	
Old Full Impact	Free	ezing rair	n may de	lay missi	on laun	ch and r	ecover	y due	to icy i	runway	ondi	itions	an	d deicir	ng of a	ircraft.		
New Full Impact	+	· · · · · ·																_
Trott I all mipao	•																	
														Cha	nged F	ull Impact?		닉
Old Source	(1st Ca	valry Div	ision, 19	92);												<b></b>	L	
New Source/ Reason for Delete	Delete I	Rule: No	longer i	n invento	ory					•								
Comments															-			Ī
Changed Source	e? [	Y			Are The	ere Any (	2) Optio	ons?	N					Any C	hange	to Record?		Y

					IWED	A Sy	stem	Rule	es							
ID # 125 Sys	tem Name			F-15	E				Rule 1 #	52	Ruf	e 2 #		Delete Rule	? Y	
Old Color 1	New	Color									Chan	ged Co	lor?			
Parameter 1 #	14 Old	Param. 1 ID	<u> </u>	rain		New P	aram.	1 ID					Char	nged Param.	1?	
Parameter 2 #	Old	Param. 2 ID				New P	aram. :	2 ID				Changed Param				
Old Value 1		1			New V	alue 1							- Chang	ed Value1?		
Old Value 2					New V	alue 2							Chang	ed Value 2?		
Old Operator 1	> 1	New Opt. 1		Change	d Opt. 1	?		Opt. 2		New Op	ot. 2		Cha	nged Opt. 2	?	
Old Condensed Impact	l	Precipi	tation		New C	Condens t	ed						Chang Impaci	ed Condens t?	ed	
Old Full Impact	Rain > Ii	ight causes	the pilot t	o use les	s accu	rate tar	geting	syster	ns.				···			
New Full Impact																
r												Cha	nged F	ull Impact?		
<u>_</u>	·	y Division, 1 e: Not signif		rview wi	th MAJ	Decesa	ari, Pilo	ot ACC	C/DOTW \	Veapon	s and	Tactics	s Bran	ch, Aug 199	07	
Changed Source	∋? Y			Are The	re Any	(2) Optio	ons?	N	]			Any C	hange	to Record?	Υ	
ID # 126 Sys	etem Name			F-15	E		-		Rule 1 #	‡ <b>5</b> 6	J	e 2 # [		Delete Ruk	e? N	
Old Color 2		Color 1						<del></del>				iged Co	_	Y		
Parameter 1 #		Param. 1 ID		ezingrair	1		aram.		Fı	reezing	Rain	<u>-</u>	_	nged Param.		
Parameter 2 #	Old	Param. 2 ID		1		_	aram.	2 ID					_	nged Param.		
Old Value 1		0			New V				None				_	ed Value1?	Y	
Old Value 2					New V								_	ed Value 2?		
Old Operator 1		New Opt. 1	>	Change			_	Opt. 2	<u> </u>	New Op				inged Opt. 2	lJ	
Old Condensed Impact	1	Freezin	g Rain		New 0	Condens t	ed		Freez	ing Rai	n		Chang Impac	jed Condens t?	ed N	
Old Full Impact	Any occ	currence of	freezing ra	in delay	s missi	on laun	ch bed	ause e	exposed	aircraft	must	be deid	ed.			
New Full Impact	Any occ	currence of	freezing ra	in delay	s missi	on laun	ch bed	cause (	exposed	aircraft	must	be dei	ed.			
Old Sauraa	/det Cavele	. Division	1002).									Cha	nged F	Fuil Impact?	N	
Į.		y Division, 1		ot ACC/E	OTW V	Veapon	s and 1	Tactics	s Branch	, Aug 19	997					
Comments																
Changed Source	e? <b>Y</b>			Are The	ere Any	(2) Opti	ons?	N	]			Any C	hange	to Record?	Y	

				1\	WEDA	\ Sy	sten	n Rui	es						
ID # 127 Syste	em Name			F-15E					Rule 1	# 63	Ru	le 2 # [		Delete Rui	e? <b>Y</b>
Old Color 1	New	Color									Chai	nged Co	olor?		
Parameter 1 #	21 Old I	Param. 1 ID	surface	windspe	ed l	New P	aram.	1 ID					Cha	nged Param	. 1?
Parameter 2 #	Old I	Param. 2 ID			1	New P	aram.	2 ID					Cha	nged Param	. 2?
Old Value 1		30		N	lew Valu	ue 1							Chang	ed Value1?	
Old Value 2				N	lew Valu	ле 2							Chang	jed Value 23	· 🗍
Old Operator 1	>= N	ew Opt. 1		Changed	Opt. 1?		Old	Opt. 2		New C	pt. 2		Cha	inged Opt. 2	?
Old Condensed Impact		Surface \	Wind	-	New Co impact	ndens	ed						Chang Impac	ed Condens t?	sed
Old Full Impact	Surface	wind > 30 kts	increases	s the imp	act erro	ors for	freef	all mur	nitions i	npact p	oints.				
New Full Impact															
Old Source (1	st Cavalry	Division, 19	92);									Cha	inged F	Full Impact?	
<u>:</u>		: Not signific		view with	MAJ D	ecesa	ri, Pil	ot ACC	DOTW	Weapo	ns and	l Tactic	s Bran	ch, Aug 19	97
Comments															
Changed Source?	Y		,	Are There	Any (2)	Optio	ns?	N				Any C	Change	to Record?	Y
ID # 128 Syste	em Name			F-15E					Rule 1	# 71	Rui	e 2 #		Delete Rul	e? Y
Old Color 2	New (	Color								L	_ Char	nged Co	lor?		
Parameter 1 #	21 Old F	aram. 1 iD	surface	windspee	d N	New Pa	aram.	1 ID				****	Char	nged Param.	1?
Parameter 2 #	Old F	aram. 2 ID			N	lew Pa	aram.	2 ID					Char	nged Param.	2?
Old Value 1		50		N	ew Valu		[	<u> </u>			1		_ Chang	ed Value1?	H
Old Value 2				N	ew Valu	ie 2							Chang	ed Value 2?	П
Old Operator 1	>= N	ew Opt. 1		Changed	Opt. 1?		Old	Opt. 2		New O	pt. 2		Cha	nged Opt. 2	? 🗍
Old Condensed Impact		Surface V	Vind	1 .	New Coi mpact	ndense	ed						Chang Impacl	ed Condens	ed
Old Full Impact	Surface systems.	wind speed >	50 kts ex	ceeds the	e cross	-wind	capal	oility of	f the air	raft we	apons	targeti	ng and	i release	
New Full Impact												Cha	ngod 5	Steamel Illus	
Old Source (1	st Cavalry	Division, 19	92);									Una	ingea F	ull Impact?	
L		Not signific		view with	MAJ D	ecesa	ri, Pil	ot ACC	DOTW	Weapor	ns and	Tactic	s Bran	ch, Aug 19	97
Comments		<b>4</b> , ,													
Changed Source?	Y		A	Are There	Any (2)	Optio	ns?	N				Any C	hange	to Record?	Y

#### **IWEDA System Rules** F-15E Rule 2# Delete Rule? ID # 129 System Name Rule 1# 98 98 Changed Color? **New Color** Old Color cloudcover New Param. 1 ID Changed Param. 1? Old Param. 1 ID Parameter 1 # Old Param. 2 ID cloudbase New Param. 2 ID Changed Param. 2? Parameter 2 # 3 New Value 1 Changed Value1? Old Value 1 10000 New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed** Changed Condensed Old Condensed Clouds Impact? Impact Impact Old Full Impact Cloud cover > 3/8 and cloud bases < 10,000 ft reduce the pilots ability to recognize targets when clouds are between aircraft and target. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ Delete Rule: Not significant. Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997 Reason for Delete Comments Y Any Change to Record? Υ Υ Are There Any (2) Options? Changed Source? Rule 2# Delete Rule? N F-15E Rule 1# 99 99 ID# 130 System Name Changed Color? Y Old Color New Color New Param. 1 ID **Cloud Cover** Changed Param. 1? cloudcover Parameter 1 # 4 Old Param. 1 ID Changed Param. 2? N Parameter 2 # Old Param. 2 ID cloudbase New Param. 2 ID **Cloud Base** 5/8 Coverage Changed Value1? Υ Old Value 1 5 New Value 1 3000 New Value 2 3000 Ft. Changed Value 2? N Old Value 2 Old Opt. 2 Changed Opt. 2? N Old Operator 1 New Opt. 1 Changed Opt. 1? New Opt. 2 Clouds **New Condensed** Clouds Changed Condensed Old Condensed N Impact? Impact Impact Cloud cover > 5/8 and cloud bases < 3000 ft significantly reduce the pilots ability to recognize targets when clouds Old Full Impact are between aircraft and target. Cloud cover > 5/8 and cloud bases < 3000 ft. reduce the pilots ability to recognize targets when clouds are between New Full Impact aircraft and target. Changed Full Impact? Υ **Old Source** (1st Cavalry Division, 1992); Interview with MAJ Decesari, Pilot ACC/DOTW Weapons and Tactics Branch, Aug 1997 New Source/ Reason for Delete Comments Υ Y Changed Source? Υ Are There Any (2) Options? Any Change to Record?

		IWE	EDA Syst	em Ru	les				
ID # 131 Syst	tem Name	F-16			Rule 1#	<b>47</b> F	Rule 2 #	Delete Ru	ule? N
Old Color 1	New Color 1	]				Ch	anged Colo	or? N	
Parameter 1 #	26 Old Param. 1 ID	visibility	New Para	ım. 1 ID	V	isibility		Changed Paran	n. 1? N
Parameter 2 #	Old Param. 2 ID		New Para	ım. 2 ID				Changed Paran	n. 2?
Old Value 1	8000	New	Value 1	8	3000 meters			Changed Value1	? N
Old Value 2	*****	New	Value 2					Changed Value 2	!?
Old Operator 1	< New Opt. 1	< Changed Opt	t. 1? N C	old Opt. 2	N	ew Opt. 2		Changed Opt.	2?
Old Condensed Impact	Reduced Visil	Dility New Imp	v Condensed act		Reduced	Visibility	<b>I</b>	Changed Conder mpact?	nsed N
Old Full Impact	Visibility < 5 miles (8000 time available to acquire			ational ar	nd terrain av	oidance/	capability	which reduces	the
New Full Impact	Visibility < 5 miles (8000	m) degrades the ti	me available	to acqui	re and iden	tify targe	ts.		
Old Course (	104 Constant Division 4000)				ı		Chan	ged Full Impact?	? <b>Y</b>
نا د	1st Cavalry Division, 1992) nterview with MAJ Fisher,		eapons and	Tactics E	Branch, Aug	1997			
Comments									
Changed Source	? Y	Are There An	y (2) Options	? N			Any Ch	nange to Record?	? <b>Y</b>
ID # 132 Syste	em Name	F-16			Rule 1#	48 R	ule 2 #	Delete Ru	ıle? N
Old Color 2	New Color 2					Ch	anged Colo	or? N	
Parameter 1 #	26 Old Param. 1 ID	visibility	New Para	m. 1 ID	Vi	sibility		Changed Param	1. 1? N
Parameter 2 #	Old Param. 2 ID		New Para	m. 2 ID				Changed Param	1. 2?
Old Value 1	4800	New '	Value 1	4	800 meters		С	hanged Value1?	? N
Old Value 2		New '	Value 2					hanged Value 2	?
Old Operator 1	< New Opt. 1	< Changed Opt.	. 1? N O	ld Opt. 2	Ne	ew Opt. 2		Changed Opt. 2	2?
Old Condensed Impact	Reduced Visib	nility New Impa	Condensed act		Low Vis	ibility		hanged Conden	sed Y
Old Full Impact	Visibility < 3 miles (4800 reduces the time availab				vigational a	ınd terrai	n avoidand	ce capability wh	nich
New Full Impact	Visibility < 3 miles (4800	m) significantly de	grades the ti	me availa	able to acqu	iire and i	dentify tar	gets.	
Old Source (1	st Cavalry Division, 1992)						Chang	ged Full Impact?	Y
<u></u>	iterview with MAJ Fisher,		eapons and	Factics B	ranch, Aug	1997			
Comments									
Changed Source?	? <b>Y</b>	Are There Any	y (2) Options?	N	]		Any Ch	ange to Record?	· Y

			IVVED	A Sys	stem Ku	ies				
ID # 133 Syste	em Name		F-16			Rule 1 # 52	Rule	2#	Delete Rule?	N
Old Color 1	New Color 1						Change	ed Color?	N	
Parameter 1 #	14 Old Param. 1 ID	ra	in	New P	aram. 1 ID	Rair	l	Cha	nged Param. 1	? N
Parameter 2 #	Old Param. 2 ID			New P	aram. 2 ID			Cha	nged Param. 2	?
Old Value 1	1		New Va	alue 1		Light		Chan	ged Value1?	Y
Old Value 2			New Va	alue 2				Chan	ged Value 2?	
Old Operator 1	> New Opt. 1	> C	hanged Opt. 1	? N	Old Opt. 2	New O	pt. 2	Cha	anged Opt. 2?	
Old Condensed Impact	Precipit	ation	New C	ondens t	ed	Rain		Chang	ged Condense ct?	Y
Old Full Impact	Rain > light intensity	degrades t	he pilots visu	al and i	nfrared det	ection ranges.				
New Full Impact	Rain > light intensity	may degra	de the pilot vi	isual an	d infrared (	detection ranges.				
Old Causes 44	lat Cavalar Biologa 4	202).				٦		Changed	Full Impact?	Y
<u> </u>	Ist Cavalry Division, 19 nterview with MAJ Fish		C/DOTM/M/	nono	nd Tastias	Branch Aug 100	7			
New Source/ Ir Reason for Delete	iterview with MAJ Fish	ier, Pilot AC	C/DOTAV AAG	ipons a	no ractics	Branch, Aug 199				
Comments									.,	
Changed Source	? <b>Y</b>	A	re There Any	(2) Optic	ons? [	N		Any Chango	e to Record?	Y
ID # 134 Syste	em Name		F-16			Rule 1 # 54	Rule	2#	Delete Rule?	N
Old Color 2	New Color 2		F-10					ed Color?	N	
Parameter 1 #	14 Old Param. 1 ID		ain	New P	aram. 1 ID	Rair			inged Param. 1	2 N
Parameter 2 #	Old Param. 2 ID			_	aram. 1 ID∫ aram. 2 ID∫	Nan			inged Param. 2	
Old Value 1	2		New V	J	aram. 2 ID	Moderate			ged Value1?	
Old Value 2			New V			- Inodorato			ged Value 2?	H
Old Operator 1	> New Opt. 1	> 0	hanged Opt. 1		Old Opt. 2	New C	ot. 2		anged Opt. 2?	
Old Condensed	Precipi		New C	Condens	,	Heavy Rair			ged Condense	d Y
Impact Old Full Impact	Rain > moderate into	neity eigni	Impac		nilote vieu	al and infrared d	etection		JL ?	
Old I'dii iiiipaci	Nam > moderate mit	stisity signi	neantly degra	ucs inc	pilota visu	aramanara a	CLCCLIOII	runges.		
New Full Impact	Rain > moderate into	ensity signi	ficantly reduc	es/degr	ades pilot	visual range.				
								Changed	Full Impact?	Y
Old Source	1st Cavalry Division, 1	992);						<b>9</b>	•	L
New Source/ Reason for Delete	T.O. 1F-16C-1, Page 7-2	2, May 96								
Comments	-									
Changed Source	? Y		Are There Any	(2) Optio	ons?	N		Any Chang	e to Record?	Y

				IWE	DA Sy	stem Ru	ules					
ID # 135 Sy	stem Name			F-16			Rule 1#	56	Rule 2#		Delete Rule?	N
Old Color	2 New	Color 1					_		Changed C	olor?	Y	-
Parameter 1 #	<b>10</b> Old	Param. 1 ID	freezing	rain	New P	aram. 1 ID	Fre	ezing F	Rain	Cha	anged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	anged Param. 2	?
Old Value 1		0		New V	alue 1		None			Chan	ged Value1?	Y
Old Value 2				New V	alue 2					Chan	ged Value 2?	F
Old Operator 1	1 >	New Opt. 1	> Chai	nged Opt.	1? N	Old Opt.	2 1	New Op	t. 2	Ch	anged Opt. 2?	
Old Condense Impact	d	Freezing	Rain	New 0	Condens t	ed	Freezi	ng Rain	1	Chan Impa	ged Condensed ct?	N
Old Full Impact	Any oc	currence of fr	eezing rain de	ays missi	on laun	ch because	e exposed a	ircraft r	nust be de	iced.		
New Full Impac	Engine	operation du	ring freezing ra	ain may re	sult in e	engine dam	nage due to	icing o	r mission o	lelays	due to deicing.	•
Old Source	(1st Cavalr	y Division, 19	92);			· ····-	7		Ch	anged	Full Impact?	Y
New Source/ Reason for Delete	T.O. 1F-160	C-1, Page 7-5,	May 1996									
Comments												
Changed Source	æ? Y		Are 1	fhere Any	(2) Optio	ons? I	N		Any	Change	e to Record?	Y
ID # 136 Sys	stem Name		F	-16			Rule 1#	59	Rule 2#		Delete Rule?	N
Old Color	2 New	Color 2			_	_		(	Changed C	olor?	N	
Parameter 1 #		Param. 1 ID	snow			aram. 1 ID		Snow			nged Param. 1?	=
Parameter 2 #	Old	Param. 2 ID			New Pa	aram. 2 ID				Cha	nged Param. 2?	<u>'                                    </u>
Old Value 1		1		New Va			Light			Chan	ged Value1?	Y
Old Value 2				New Va							ged Value 2?	
Old Operator 1	> 1	New Opt. 1	> Chan	ged Opt. 1	? N	Old Opt. 2	2 N	lew Opt	. 2	Cha	anged Opt. 2?	
Old Condensed Impact	d	Snov	<b>,</b>	New C	ondense t	ed	Sn	ow		Chang Impac	ged Condensed ct?	N
Old Full Impact	Snow >	light intensity	significantly	degrades	the pilot	ts visual ar	nd infrared o	detectio	n ranges.			
New Full Impac	snow>	light intensity	significantly	degrades	the pilot	ts visual ar	nd infrared o	detectio	on ranges.			
							7		Ch	anged I	Full Impact?	N
New Source/ Reason for		y Division, 19 with MAJ Fishe	92); er, Pilot ACC/D	OTW Wea	pons ar	nd Tactics	Branch, Aug	g 1997				
Delete Comments						-						_
Changed Source	e? <b>Y</b>		Are T	here Any (	2) Optio	ns? N	1		Any (	Change	e to Record?	Y

				NEDA Sy	stem Ru	les				
ID # 137 S	System Name		F-16			Rule 1#	<b>60</b> R	ule 2 # [	Delete Rule	e? N
Old Color	1 New	Color 1					Cha	inged Co	lor? N	
Parameter 1	# <b>17</b> Old	Param. 1 ID	snow	New F	aram. 1 ID		Snow		Changed Param.	. 1? N
Parameter 2	# Old	l Param. 2 ID		New F	aram. 2 ID	<u> </u>			Changed Param.	. 2?
Old Value 1		0	N	lew Value 1		None			- Changed Value1?	Y
Old Value 2			N	lew Value 2					Changed Value 2?	· 🔲
Old Operato	r1 >	New Opt. 1 >	Changed	Opt. 1? N	Old Opt. 2	!	lew Opt. 2		Changed Opt. 2	?
Old Condens Impact	sed	Snow		New Condens	ed	Sn	ow		- Changed Condens Impact?	sed N
Old Full Impa	act Any oc	currence of snowfa	all degrades th	e pilots visu	al and infra	red detection	n ranges.		-	
New Full Imp	act Snowfa	all may degrade the	pilots visual	and infrared	detection ra	anges.				
Old Carres	(4-4-0	- Division 4000)				٦		Cha	nged Full Impact?	Y
Old Source		ry Division, 1992);	IL-4 A CC(DOT)	V 18/22222	nd Tastics	J Danah Au	~ 4007			
New Source/ Reason for Delete	Interview	with MAJ Fisher, P	IIOT ACC/DOTY	v vveapons a	nd ractics	branch, Au	g 1997			
Comments										
Changed Sou	urce? Y		Are There	Any (2) Opti	ons?	V		Any C	hange to Record?	Y
ID# 138	System Name	•	F-16			Rule 1#	63 R	ule 2 #	Delete Rui	e? [Y]
Old Color	2 Nev	v Color					Cha	anged Co	lor?	
Parameter 1	# <b>21</b> Oid	d Param. 1 ID su	ırfacewindspe	ed New F	aram. 1 ID				Changed Param	. 1? 🔃
Parameter 2	# Ok	d Param. 2 ID		New F	aram. 2 ID				Changed Param	. 2?
Old Value 1		30		lew Value 1					Changed Value1?	
Old Value 2			N	lew Value 2					Changed Value 2?	,
Old Operato	or 1 >=	New Opt. 1	Changed	Opt. 1?	Old Opt. 2	2 1	New Opt. 2		Changed Opt. 2	?
Old Conden Impact	sed	Surface Wind	1	New Condens Impact	sed			I .	Changed Condens Impact?	sed
Old Full Impa	act Surfac	e wind > 30 kts sig	nificantly incre	eases the imp	pact errors	for freefall r	nunitions.			
New Full Imp	pact								15.11	
Old Source	(1st Cava	Iry Division, 1992);	<u> </u>			٦		Cha	inged Full Impact?	
New Source/ Reason for Delete	Ľ	le: Not significant	. Interview with	n MAJ Fisher	, Pilot ACC/	J DOTW Wea	pons and	Tactics E	Branch, Aug 1997	
Comments				-	***************************************					
Changed So	urce? Y		Are There	e Any (2) Opti	ons?	N		Any C	Change to Record?	, Y

				IWEI	DA Sy	stem	Rul	es			_		
ID # 139 Sys	tem Name	e [		F-16				Rule 1#	67	Rule 2	2#	Delete Rule	e? <b>Y</b>
Old Color 1	Ne	w Color								- Change	d Color?		
Parameter 1 #	21 0	d Param. 1 ID	surfac	ewindspeed	New P	aram.	1 ID				CI	hanged Param.	1?
Parameter 2 #	01	d Param. 2 ID			New P	aram.	2 ID				CI	hanged Param.	2?
Old Value 1		20		New V	_ ∕alue 1						 Cha	anged Value1?	
Old Value 2				New V	alue 2						Cha	anged Value 2?	
Old Operator 1	>=	New Opt. 1		Changed Opt.	1?	Old	Opt. 2		New Op	ot. 2		hanged Opt. 2	
Old Condensed Impact		Surface	Wind	New 0	Condens	ed			·		Cha	anged Condens	
Old Full Impact	l -	e wind > 20 kt errors.	s cause f	reefall munitior	ns impac	t poin	ts to b	e manua	lly com	puted ar	nd releas	sed with assoc	iated
New Full Impact											Changa	d Full Import?	
Old Source	1st Cava	ry Division, 19	992):								Change	d Full Impact?	
				rview with MAJ	l Fisher,	Pilot /	ACC/D	OTW We	apons a	ind Tact	ics Bran	ch, Aug 1997	
Comments													
Changed Source	? Y			Are There Any	(2) Optic	ons?	N			A	ny Chan	ge to Record?	Y
ID# 140 Syst	tem Name	:		F-16				Rule 1#	100	Rule 2	# 100	Delete Rule	? N
Old Color 1	Nev	Color 1			·					Change	d Color?	N	
Parameter 1 #	<b>4</b> Ok	l Param. 1 ID	cio	udcover	New P	aram.	1 ID	C	oud Co	ver	Ch	nanged Param.	1? N
Parameter 2 #	3 Old	l Param. 2 ID	clo	udbase	New P	aram. 2	2 ID	С	loud Ba	ise	Cr	nanged Param.	2? N
Old Value 1		3		New V	alue 1		3/8	3 Coveraç	je		Cha	nged Value1?	Y
Old Value 2		3000		New V	alue 2	3000	Ft.				Cha	nged Value 2?	N
Old Operator 1	>	New Opt. 1	>	Changed Opt.	1? N	Old C	Opt. 2	<	New Op	t. 2	< C	hanged Opt. 23	N
Old Condensed Impact		Cloud	ds	New 0	Condense t	ed		Low	Clouds		Cha Impa	nged Condenso	ed Y
Old Full Impact				ases < 3000 ft o			optio	ns and m	aneuve	rability.	Attacks	become	
New Full Impact	Cloud	cover > 3/8 an	d cloud b	ases < 3000 ft r	nay deg	rade a	ttack o	options a	nd man	euverab	ility.		
											Oha	d (F., II I	
Old Source (	1st Caval	ry Division, 19	992);								Change	d Full Impact?	Υ
New Source/ Reason for Delete	nterview	with MAJ Fish	er, Pilot A	ACC/DOTW Wea	apons ar	nd Tac	tics B	ranch, Au	ıg 1997				
Comments													

					WED	A Sy	stem	Rule	es						
ID # 141 Syste	em Name			F-16	i				Rule 1#	101	Rule	2#[	101	Delete Rule	? N
Old Color 2	New	Color 1									Chang	ged Co	lor?	Υ	
Parameter 1 #	4 Old	Param. 1 ID	clo	udcover		New P	aram.	1 ID	Clo	oud Co	ver		Cha	nged Param.	1? N
Parameter 2 #	3 Old	Param. 2 ID	clo	oudbase		New P	aram.	2 ID	CI	oud Ba	se		Cha	nged Param.	2? N
Old Value 1		5			New Va	alue 1		5/8	8 Coverag	е			Chang	ged Value1?	Y
Old Value 2		1000			New Va	alue 2	1000	Ft.					Chang	ged Value 2?	N
Old Operator 1	> 1	New Opt. 1	>	Change	1 Opt. 1	? N	Old	Opt. 2	< N	lew Op	t. 2	<	Cha	anged Opt. 21	? N
Old Condensed Impact		Clou	ds		New C	ondens t	ed		Very Lov	v Cloud	ds		Chang Impac	ged Condenso t?	ed Y
Old Full Impact		over > 5/8 ar predictable								acks a	nd ma	ineuve	erabili	ty. Attacks	
New Full Impact	Cloud c	over > 5/8 ar	d cloud b	oases < 10	)00 ft. c	degrade	e visua	ıl attac	ks and ma	ineuve	rabilit				
Old Source (1	let Cavaln	y Division, 1	9921-									Cha	nged I	Full Impact?	Y
<u></u>		vith MAJ Fish		ACC/DOT	W Wea	ipons a	nd Tac	ctics B	ranch, Au	g 1997					
Comments															
Changed Source?	? Y			Are Ther	e Any (	(2) Optio	ons?	Y	]		• • • • • • • • • • • • • • • • • • • •	Any C	Change	e to Record?	Y
ID # 142 Syste	em Name			F-40	<b></b>				Rule 1 #	32	ı	2#[		Delete Rule	? <b>Y</b>
Old Color 1		Color				•		_			Chang	ged Co	_		
Parameter 1 #	23 Old	Param. 1 ID	thur	nderstorn	1	1	'aram.	<u></u>						nged Param.	
Parameter 2 #	Old	Param. 2 ID				J	aram.	2 ID					_	nged Param.	2?
Old Value 1		1		]	New Va		<u></u>		yes					ged Value1?	
Old Value 2				]	New Va								_	ged Value 2?	
Old Operator 1	=   1	New Opt. 1	=	Change	-		J	Opt. 2	N	lew Op	t. 2			anged Opt. 21	لـــــا
Old Condensed Impact		Thunde	rstorm		New C	Condens t	ed						Chang	ged Condense t?	ed
Old Full Impact	Thunde	rstorms may	cause m	ission de	lays an	nd limit	areas	where	aircraft ca	ın oper	ate ef	fective	ely.		
New Full Impact															
Old Source (1	1et Cavalr	y Division, 1	9921.									Cha	inged i	Full Impact?	
<u></u>		e: No longer		ory							-				
Comments															
Changed Source	? Y		= w	Are The	re Any	(2) Opti	ons?	N	]			Any (	Change	e to Record?	Y

			IWE	DA Sy	stem	Rul	es ———						
ID# 143 Sy	stem Name		F-4G	···			Rule 1#	56	Rule	2#	Del	ete Rule?	Υ
Old Color	2 New Color								Change	ed Colo	?		
Parameter 1 #	10 Old Param. 1 I	D free	ezingrain	New P	aram. 1	1 ID					Changed	Param. 1	?
Parameter 2 #	Old Param. 2 I	D		New P	aram. 2	2 ID			<u>-</u>	<u> </u>	Changed	Param. 2	?
Old Value 1	0		New \	_ /alue 1						CI	nanged V	alue1?	$\Box$
Old Value 2			New \	/alue 2						CI	nanged V	alue 2?	
Old Operator 1	> New Opt. 1		Changed Opt.	1?	Old C	)pt. 2	1	lew Opt	. 2		Changed	Opt. 2?	一
Old Condense	d Freez	ing Rain	New Impa	Condens ct	ed						nanged C	ondense	<b>d</b>
Old Full Impact	Freezing rain may	delay miss	ion launch and	recover	y due t	o icy	runway co	ndition	s and	deicing	of aircra	ıft.	
New Full impac	t							-					
Old Source	(1st Cavalry Division,	1992):								Chang	ed Full In	npact?	
New Source/ Reason for Delete	Delete Rule: No long		ory				-						
Comments		12.1											
Changed Sourc	e? Y		Are There Any	(2) Optic	ons?	N			F	Any Cha	inge to R	ecord?	Y
ID # 144 Sys	stem Name		M1				Rule 1#	53	Rule 2	2#	Dele	ete Rule?	N
Old Color	1 New Color	1						(	Change	d Color	? N		
Parameter 1 #	14 Old Param. 1 II	D	rain	New P	aram. 1	ID		Rain			Changed	Param. 1	? N
Parameter 2 #	Old Param. 2 II	)		New P	aram. 2	lD		i		<b>=</b>	Changed	Param. 2	? 🗍
Old Value 1	0		New V	_ ∕alue 1			Moderate			Ct	anged Va	alue1?	Y
Old Value 2			New V	/alue 2						Cł	anged Va	alue 2?	
Old Operator 1	> New Opt. 1	>	Changed Opt.	1? N	Old O	pt. 2	N	lew Opt.	2		Changed	Opt. 2?	Ħ
Old Condensed Impact		pitation		Condense			Ra	in			anged Copact?	ondense	Y
Old Full Impact	Any occurrence of	rain makes	it difficult to id	dentify fa	alse rar	nging	returns.	,					
New Full Impac	Any occurrence of	> moderea	te rain makes i	t difficul	t ot ide	ntify f	alse rangi	ng retu	rns.				
Old Source	(1st Cavalry Division,	1992);								Chang	ed Full In	npact?	Y
New Source/	(1st Cavalry Division, Personal Interview wi ANG, Ft. Bragg, NC		November 1997	7. CSM I	Donald	Schw	ab HHC1-	52 Armo	ored B				Y
New Source/ Reason for	Personal Interview wi		November 1997	7. CSM I	Donald	Schw	rab HHC1-	52 Armo	ored B				Y

				IWEDA	Sys	tem	Rul	es					
ID # 145 System	n Name New C	Color 2	M1					Rule 1#		ile 2 # [	143 olor?	Delete Rule?	N
Parameter 1 # 2	26 Old P	aram. 1 ID	visibility	1	New Pa	aram. 1	םו ו	V	isibility		Chan	ged Param. 1	? N
Parameter 2 #	14 Old P	aram. 2 ID	rain		New Pa	aram. 2	2 ID		Rain		Chan	iged Param. 2	? N
Old Value 1		500		New Valu	ue 1			500 meters			_ Chang	ed Value1?	N
Old Value 2		0		New Valu	ue 2	None					Chang	ed Value 2?	Y
Old Operator 1	< N	ew Opt. 1	< Change	ed Opt. 1?	N	Old C	)pt. 2	> N	lew Opt. 2	>	Cha	nged Opt. 2?	N
Old Condensed Impact	Precipit	ation and Redu	iced Visibility	New Co	ndense	ed		Ra	in		Chang Impact	ed Condensed	Y
Old Full Impact		arrence of rain and enemy veh		s < 0.3 mil	le (500	m) ma	ake it	very diffic	ult for crev	vs to dis	tinguis	sh between	
New Full Impact		ırrence of rain friendly and en			le (500	m) ma	ake it	very diffic	ult for crev	vs to vis	ually d	istinguish	
Old Source (1s	t Cavalry	Division, 1992	);							Cha	inged F	full Impact?	Y
	rsonal Int IG, Ft. Bra	erview with SN agg, NC	IE, 12 Novemb	er 1997.	CSM [	Donald	Sch	wab HHC1-	52 Armore	d Battal	ion No	rth Carolina	
Comments								-					
Changed Source?	Y		Are The	ere Any (2	) Optio	ns?	Y			Any (	Change	to Record?	Υ
ID# 146 System	m Name		M	1				Rule 1#	144 R	ule 2 #	144	Delete Rule?	N
Old Color 2	New 0	Color 1							Cha	nged Co	olor?	Y	
Parameter 1 #	26 Old F	Param. 1 ID	visibility		New P	aram.	1 ID		/isibility		Char	nged Param. 1	? N
Parameter 2 #	4 Old F	Param. 2 ID	cloudcove	r 1	New P	aram. :	2 ID	Clo	oud Cover		Char	nged Param. 2	? N
Old Value 1		1500		New Val	ue 1		1	500 meters	3	]	Chang	ed Value1?	N
Old Value 2		0		New Val	ue 2	None				]	Chang	ed Value 2?	Y
Old Operator 1	< N	ew Opt. 1	< Change	ed Opt. 1?	N	Old (	Opt. 2	= 1	lew Opt. 2	=	Cha	inged Opt. 2?	N
Old Condensed Impact	Clear S	kies and Redu	ced Visibility	New Co Impact	ndens	ed		Low Vi	sibility		Chang Impac	ed Condensedt?	Y
Old Full Impact	Clear ski enemy v	ies and visibilit ehicles.	y < 0.9 mile (1	500 m) m	ake it	very di	ifficul	t for crews	to disting	uish bet	ween f	riendly and	
New Full Impact		ies and visibilit my vehicles.	y < 0.9 mile (1	500 m) m	ake it v	very d	ifficul	t for crews	to visually	/ disting	juish b	etween friend	lly
Old Source (1s	st Cavalry	Division, 1992	1);				-	]		Ch	anged F	Full Impact?	Y
	ersonal In NG, Ft. Br	terview with SI agg, NC	/IE, 12 Noveml	per 1997.	CSM	Donald	d Sch	wab HHC1	-52 Armore	ed Batta	lion No	orth Carolina	
Comments													
Changed Source?	Y		Are Th	ere Any (2	2) Optio	ons?	Y	<u></u>		Any	Change	e to Record?	Υ

		IWED	OA System	Rules		
ID # 147 Syst	tem Name	M109 SP HOWITZE	R	Rule 1	‡ 10 R	ule 2 # Delete Rule? N
Old Color 1	New Color 1				Ch	anged Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param.	1 ID T	emperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param.	2 ID		Changed Param. 2?
Old Value 1	60	New V	alue 1	- 20 F		Changed Value1? Y
Old Value 2		New V	alue 2			Changed Value 2?
Old Operator 1	<= New Opt. 1	<= Changed Opt. 1	? N Old (	Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Temperat	ure New C	Condensed t	Extre	me Cold	Changed Condensed Y
Old Full Impact	Temperatures <= 60 F	affect the artillery tube	and therefore	its accuracy.		
			-			
New Full Impact	Temperatures <= -20 F	affect the artillery tube	and therefore	e its accuracy.		
						Changed Full Impact? Y
Old Source	1st Cavalry Division, 199	2);				
	M 9-2350-311-10, Para 2-	20, Feb 1996		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Reason for Delete						
Comments						
Changed Source	? Y	Are There Any	(2) Options?	N		Any Change to Record?
	em Name	M109 SP HOWITZE	R	Rule 1 #		ule 2 # Delete Rule? Y
Old Color 2	New Color				Cha	inged Color?
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param.			Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2	2 ID		Changed Param. 2?
Old Value 1	125	New Va				Changed Value1?
Old Value 2		New Va				Changed Value 2?
Old Operator 1	>= New Opt. 1	Changed Opt. 1	ш,	opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Hot	New C	ondensed			Changed Condensed Impact?
Old Full Impact	Temperatures >= 125 F flammable.			quick build-up	of heat. Thi	s makes propellant potentially
New Full Impact						
Old Course	of Caralas Division 400					Changed Full Impact?
	st Cavalry Division, 199			455	122422	4.1.1.1.6.400
	elete Rule: TM 9-1025-21 ibe temperature. Para 2-				zer (M109) (	says nothing about artillery
Comments						
	y Y	Are There Any (		N		Any Change to Record?

				IWED	DA Sy	stem	Rui	es						
ID # 149 Syst	em Name		N	12/M3				Rule 1 #	143	Rule 2	# 14	43	Delete Rule?	N
Old Color 2	New	Color 2							(	Change	d Color	? [	N	
Parameter 1 #	<b>26</b> Old	Param. 1 ID	visibili	ty	New P	aram. 1	1 ID	٧	isibility	/		Chan	ged Param. 1	? N
Parameter 2 #	<b>14</b> Old	Param. 2 ID	rain		New P	aram. 2	2 ID		Rain		(	Chan	ged Param. 2	? N
Old Value 1		500		New V	alue 1		5	00 meters			Ch	nange	ed Value1?	N
Old Value 2		0		New V	alue 2	0					Cł	nange	ed Value 2?	N
Old Operator 1	< 1	New Opt. 1	< Char	nged Opt.	1? N	Old C	Opt. 2	> N	ew Opt	. 2	>	Char	nged Opt. 2?	N
Old Condensed Impact	Precip	itation and R	educed Visibil	ity New (	Condens t	ed		Ra	in ·			hange pact?	ed Condensed	Y
Old Full Impact		currence of ra	ain and visibili vehicles.	ties < 0.3 r	nile (506	) m) ma	ake it	very difficu	alt for o	rews to	distin	nguis	h between	
New Full Impact			ain and visibili I enemy vehicl		nile (50	0 m) ma	ake it	very diffic	ult for o	rews to	) visua	illy di	stinguish	
Old Source	1st Cavalr	y Division, 1	992);								Chang	jed Fi	ıll Impact?	N
New Source/		nterview with	SME, 12 Nove	mber 1997	. CSM	Donald	l Schv	vab HHC1-	52 Arm	ored Ba	attalior	1 Nor	th Carolina	
Comments														
Changed Source	? Y		Are	There Any	(2) Option	ons?	Y			٥	iny Cha	ange 1	to Record?	Y
ID # 150 Syst	tem Name		٨	/12/M3				Rule 1#	144	Rule 2	2# 14	44	Delete Rule?	N
Old Color 2	New	Color 1							i	Change	d Color	r?	Y	
Parameter 1 #	<b>26</b> Old	Param. 1 ID	visibili	ity	New F	aram. 1	1 ID	V	/isibilit	у	(	Chan	ged Param. 1	? N
Parameter 2 #	4 Old	Param. 2 ID	cloudco	ver	New F	Param. 2	2 ID	Clo	oud Co	ver	(	Chan	ged Param. 2	? N
Old Value 1		1500		New V	alue 1		1	500 meters	3		Cł	hange	ed Value1?	N
Old Value 2		0		New V	aiue 2	0			-		Cl	hange	ed Value 2?	N
Old Operator 1	<	New Opt. 1	< Cha	nged Opt.	1? N	Old C	Opt. 2	= N	lew Opt	t. 2	=	Char	nged Opt. 2?	N
Old Condensed Impact	Clear	Skies and Ro	educed Visibili	ty New (	Condens ct	sed		Low Vi	sibility		T .	hange npact	ed Condensed ?	Y
Old Full Impact		kies and visil vehicles.	oility < 0.9 mile	(1500 m)	make it	very di	ifficult	for crews	to dist	inguish	betwe	en fr	iendly and	
New Full Impact		kies and visil emy vehicles	oility < 0.9 mile	(1500 m)	make it	very di	ifficult	t for crews	to visu	ially dis	stinguís	sh be	etween friend	ly
_											Chanç	ged F	ull Impact?	Y
		y Division, 1												
	Personal I ANG, Ft. B		SME, 12 Nove	mber 1997	7. CSM	Donald	d Sch	wab HHC1-	52 Arm	nored B	attalio	n Nor	th Carolina	
Comments														
Changed Source	? Y		Are	There Any	(2) Opti	ons?	Y	7		-	Any Ch	ange	to Record?	Y

				IWE	DA Sy	stem Ru	ıles					
ID # 151 Sys	stem Nar	me		MLQ-34			Rule 1#	7	Rule 2#		Delete Rule?	? N
Old Color 2	2 N	ew Color	2						Changed C	olor?	N	
Parameter 1 #	22	Oid Param. 1	ID te	mperature	New F	Param. 1 ID	Ter	nperatu	re	Cha	inged Param. 1	? N
Parameter 2 #		Old Param. 2	ID		New F	aram. 2 ID				Cha	inged Param. 2	2?
Old Value 1		-25		New V	alue 1		-25 F			Chan	ged Value1?	N
Old Value 2				New V	alue 2					Chan	ged Value 2?	
Old Operator 1	<=	New Opt.	1 <=	Changed Opt.	1? N	Old Opt. 2	2 N	ew Opt.	2	Ch	anged Opt. 2?	
Old Condensed Impact			Cold	New (	Condens	ed	Extrem	e Cold		Chang Impac	ged Condense	d Y
Old Full Impact			25 F exceese temperate	ed the operationa ures.	al limits.	The anten	na cables te	nd to fro	eeze and s	snap d	uring set-up o	r
New Full Impact			25 F exceese temperate	ed the operationa ures.	al limits.	The anten	na cables te	nd to fre	eze and s	snap d	uring set-up o	ır
Old Source	(1st Cav	airy Divisio	n, 1992);				7		Cha	anged	Full Impact?	N
New Source/ Reason for Delete	FM 34-8	1-1, Append	lix I-6, Dec 1	992			. <del></del>		, 18			
Comments										,		
Changed Source	9? Y			Are There Any	(2) Optio	ons? [	v		Any (	Change	e to Record?	Y
ID # 152 Sys	tem Nan	ne		MLQ-34			Rule 1#	17	Rule 2#		Delete Rule?	N
Old Color 2	. No	ew Color	2					С	hanged Co	olor?	N	
Parameter 1 #	<b>22</b> C	old Param. 1	ID tei	mperature	New P	aram. 1 ID	Ten	peratu	re	Cha	nged Param. 1	? N
Parameter 2 #		old Param. 2	ID		New P	aram. 2 ID				Cha	nged Param. 2	?
Old Value 1		120		New Va	alue 1		120 F			Chang	ged Value1?	N
Old Value 2				New Va	alue 2					Chang	ged Value 2?	
Old Operator 1	>=	New Opt.	1 >=	Changed Opt. 1	l? N	Old Opt. 2	. Ne	ew Opt.	2	Cha	anged Opt. 2?	
Old Condensed Impact			Hot	New C Impac	Condens t	ed	Very	Hot		Chang	ged Condensed t?	Y
Old Full Impact	Temp	eratures >=	120 F excee	ed the operationa	al limits	•						
New Full Impact	Temp	peratures >=	120 F excee	ed the operationa	al limits.	•						
Old Source (	1st Cav	alry Divisior	n. 1992):				]		Cha	anged F	Full Impact?	N
			ix I-7, Dec 19	992								
Comments												$\overline{}$
Changed Source	? Y			Are There Any	(2) Optio	ns? N	1		Any C	Change	to Record?	Υ

			IWE	DA Sy	stem Rul	es				
ID # 153 System	n Name		MLQ-34			Rule 1#	25 F	Rule 2 #	Delete Rule	? Y
Old Color 1	New Color					•	Ch	anged Co	lor?	
Parameter 1 #	6 Old Param. 1 II	dev	wpoint	New P	aram. 1 ID				Changed Param.	1?
Parameter 2 #	Old Param. 2 II	0		New F	aram. 2 ID				Changed Param.	2?
Old Value 1	65		New	Value 1					Changed Value1?	
Old Value 2			New	Value 2					Changed Value 2?	
Old Operator 1	>= New Opt. 1		Changed Opt	. 1?	Old Opt. 2	N	lew Opt. 2		Changed Opt. 2	?
Old Condensed Impact	Dewpoint '	Temperature	New Impa	/ Condens act	ed				Changed Condens Impact?	ed
Old Full Impact	Dewpoint tempera	tures >= 65 F	degrade pe	rformanc	e.					
							· · · · · · · · · · · · · · · · · · ·			
New Full Impact										
								Cha	nged Full Impact?	
Old Source (1s	t Cavalry Division,	1992);								
New Source/ Reason for Delete	lete Rule: Absolute	ely no referer	nce in FM 34-	-81-1, Dec	: 1992. No of	ther source	s found.			
Comments										
Changed Source?	Υ		Are There An	ıy (2) Opti	ons?			Any C	hange to Record?	Υ
ID # 154 Syste	m Name	· · · · · · · · · · · · · · · · · · ·	MLQ-34			Rule 1#	26 F	Rule 2#	Delete Rule	e? [Y]
Old Color 2	New Color					J .		ا anged Co		
Parameter 1 #	6 Old Param. 1 I	D de	wpoint	New F	Param. 1 ID				Changed Param.	1?
Parameter 2 #	Old Param. 2 I			New F	aram. 2 ID				Changed Param.	2?
Old Value 1	85		New	Value 1				7	Changed Value1?	
Old Value 2			New	Value 2			-		Changed Value 2?	
Old Operator 1	>= New Opt. 1		Changed Opt	t. 1?	Old Opt. 2		lew Opt. 2	!	Changed Opt. 2	?
Old Condensed Impact	Dewpoint	Temperature	New Imp	v Condens act	sed				Changed Condens impact?	ed
Old Full Impact	Dewpoint tempera	ntures >= 85 i	F greatly deg	rade perf	ormance an	d exceed o	perating I	imits.		
New Full Impact										
Old Source (1:	st Cavalry Division	, 1992);				]		Cha	inged Full Impact?	
1.	elete Rule: Absolut		nce in FM 34	-81-1, Dec	: 1992. No o	ther source	es found.			
Comments										
Changed Source?	Y		Are There Ar	ny (2) Opti	ons?	4		Any 0	Change to Record?	Y

					IWE	DA Sy	stem	Rul	es						
ID # 155 Syst	em Nam	е		ОН-5	8C				Rule 1#	24	Rule	2#		Delete Rule	? Y
Old Color 1	Ne	w Color									Change	ed Colo	r?		
Parameter 1 #	<b>22</b> O	ld Param. 1 ID	ter	nperature	9	New F	aram.	1 ID					Char	nged Param.	1?
Parameter 2 #	0	ld Param. 2 ID				New F	aram. :	2 ID					Char	iged Param.	2?
Old Value 1		100			New V	alue 1						C	hang	ed Value1?	
Old Value 2				Ī	New V	alue 2						С	hang	ed Value 2?	
Old Operator 1	>=	New Opt. 1		Change	d Opt. 1	1?	Old C	Opt. 2	N	ew Opt	t. 2		Cha	nged Opt. 2?	
Old Condensed Impact		Но	ot		New C Impac	Condens	ed						hang npact	ed Condense ?	d
Old Full Impact	Temp	eratures >= 10	0 F degra	de aircra	ft perfo	rmance	9.								
New Full Impact															
Old Source	let Cove	Iry Division, 1	002),		<u> </u>							Chang	ed F	ull Impact?	
<u></u>		ile: Not signif		sed on co	omment	ts in TW	1 55-152	20-228	I-10, Para 8	-36, Ju	ın 1996	<u> </u>			
Comments											·····				
Changed Source	? <b>Y</b>			Are The	re Any	(2) Optio	ons?	N	]		<i>,</i>	Any Cha	ange	to Record?	Υ
ID # 156 Syste	em Namo	e Color 1		ОН-5	8C				Rule 1 # [	32	Rule 2	2 #ed Color	?	Delete Rule	? N
Parameter 1 #	<b>23</b> Ol	d Param. 1 ID	thui	nderstorn	n	New P	aram. 1	I ID	Thui	ndersto	orm		Chan	ged Param. 1	1? N
Parameter 2#	Ol	d Param. 2 ID				New P	aram. 2	ID.				(	Chan	ged Param. 2	2?
Old Value 1		1		]	New Va	alue 1			None			Cł	nange	ed Value1?	Y
Old Value 2				]	New Va	alue 2						Ch	nange	ed Value 2?	
Old Operator 1	=	New Opt. 1	>	Change	d Opt. 1	? Y	Old C	pt. 2	No.	ew Opt	. 2		Char	nged Opt. 2?	
Old Condensed Impact		Thunde	rstorm		New C	ondens t	ed		Thunde	rstorm		Cł Im	nange pact	ed Condense ?	d N
Old Full Impact	Any o	ccurrence of t	hundersto	orms curt	ail airc	raft and	l refuel	ing op	erations d	ue to s	afely c	onside	ratio	ns.	
New Full Impact		onal flight int e delayed.	o thunder	storm is	prohibi	ted. Ca	re mus	t be ex	xercised w	hile pe	rformir	ng fligh	it pla	nning. Fligh	ts
												Chang	ed F	ull Impact?	Y
ينا		Iry Division, 1 20-228-10, Par		, Jun 199	6										
Comments								<del>.</del>							
Changed Source?	Y			Are The	re Any (	(2) Optic	ns?	N			P	Any Cha	inge	to Record?	Y

### IWEDA System Rules OH-58C Delete Rule? ID# 157 Rule 1# 56 Rule 2# System Name Changed Color? Y Old Color **New Color** Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Freezing Rain Changed Param. 1? | N Changed Param. 2? New Param. 2 ID Old Param. 2 ID Parameter 2 # None 0 New Value 1 Changed Value 1? Old Value 1 New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 **New Condensed** Freezing Rain Changed Condensed Old Condensed Freezing Rain Ν Impact Impact? Impact Old Full Impact Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. **New Full Impact** Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. N Changed Full Impact? Old Source (1st Cavalry Division, 1992); TM 55-1520-228-10, Para 8-34, Jun 1996 New Source/ Reason for Delete Comments Y N Changed Source? Y Are There Any (2) Options? Any Change to Record? OH-58C Rule 2# Delete Rule? N ID# 158 System Name Rule 1# 60 N Old Color New Color Changed Color? Changed Param. 1? N New Param. 1 ID Parameter 1 # Old Param. 1 ID snow Snow Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID Υ Old Value 1 New Value 1 None Changed Value 1? New Value 2 Changed Value 2? Old Value 2 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 **New Condensed** Changed Condensed Old Condensed Snow Snow N Impact? Impact Impact Any occurrence of snowfall requires the installation of reverse flow fairings which could delay mission launch. Old Full Impact These fairings also degrade the power margin by 4%. Any occurrence of snowfall requires the installation of reverse flow fairings which could delay mission launch. New Full Impact These fairings also degrade the power margin by 4%. Visibility must be >= 1/2 mile. Υ Changed Full Impact? (1st Cavalry Division, 1992); Old Source New Source/ TM 55-1520-228-10, Para 5-30, Jun 1996 Reason for Delete Comments Υ N Changed Source? Y Are There Any (2) Options? Any Change to Record?

	<del></del>			IWE	DA Sy	stem Ru	les					
ID # 159 Sys	stem Name			OH-58C			Rule 1#	61	Rule 2#		Delete Rule	? N
Old Color	1 New	Color 1							Changed C	olor?	N	
Parameter 1 #	2 Old	Param. 1 ID	blo	wingsnow	New P	aram. 1 ID	Blov	ving S	now	Cha	nged Param.	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	nged Param.	2?
Old Value 1		1		New V	alue 1		None			Chan	ged Value1?	Y
Old Value 2				New V	alue 2					Chan	ged Value 2?	
Old Operator 1	=	New Opt. 1	>	Changed Opt.	1? Y	Old Opt. 2	N	ew Opt	:. 2	Cha	anged Opt. 2?	· 🗂
Old Condensed Impact	i	Blowing	Snow	New 0	Condense t	ed	Blowing	Snow	7	Chang Impac	ged Condense t?	ed N
Old Full Impact	Any occ These f	currence of b airings also	lowing si degrade t	now requires the	e installa n by 4%	ation of revi	erse flow fa	rings	which cou	id delay	y mission lau	ınch.
New Full Impact				now requires the he power margi						d delay	/ mission lau	nch.
Old Source	(1st Cavalr	y Division, 1	992);					,	Ch	anged F	Full Impact?	Y
New Source/ Reason for Delete	TM 55-1520	0-228-10, Para	a 5-30, Ju	ın 1996								
Comments												
Changed Source	e? Y			Are There Any	(2) Optio	ns? N	]		Any	Change	to Record?	Y
ID# 160 Sys	tem Name			OH-58C			Rule 1 #	63	Rule 2#		Delete Rule?	? N
Old Color 2	! New	Color 1						(	Changed C	olor?	Y	
Parameter 1 #	<b>21</b> Old	Param. 1 ID	surfac	ewindspeed	New Pa	aram. 1 ID	Surface	Wind	Speed	Char	nged Param. 1	!? N
Parameter 2 #	Old	Param. 2 ID			New Pa	ram. 2 ID				Char	nged Param. 2	2?
Old Value 1		30		New Va	alue 1		35 kts.			Chang	ed Value1?	Y
Old Value 2				New Va	alue 2					Chang	ed Value 2?	
Old Operator 1	>= 1	New Opt. 1	>	Changed Opt. 1	? Y	Old Opt. 2	Ne	w Opt	. 2	Cha	inged Opt. 2?	
Old Condensed Impact		Surface	Wind	New C	ondense	ed	Strong Surf	ace W	ind	Chang Impact	ed Condense	d Y
Old Full Impact	Surface	wind speed	> 30 kts e	exceeds the syst	em opei	rating limits	to perform	terrair	n flights.			
New Full Impact	Surface	wind speed	>35 kts m	nay impact on ai	rcraft ho	ver.						
Old Source (	1st Cavaln	y Division, 19	1021.						Ch	anged F	full Impact?	Y
-		)-228-10, Para		n 1996								
Comments												
_ Changed Source	? <b>Y</b>			Are There Any (	2) Option	ns? N	]		Any	Change	to Record?	Y

					IWED	A Sy	stem l	Rul	es						
ID # 161 Syst	em Name			OH-58	3C				Rule 1#	67	Ru	le 2 #		Delete Rule	? N
Old Color 1	New	Color 2									Char	nged C	olor?	Y	
Parameter 1 #	21 Old	Param. 1 ID	surfac	ewindspe	ed	New P	aram. 1	ID	Surfac	e Wind	Spe	ed	Cha	nged Param.	1? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID[					Cha	nged Param.	2?
Old Value 1		20			New Va	alue 1			45 kts.				Chang	ged Value1?	Y
Old Value 2					New Va	alue 2							Chang	ged Value 2?	
Old Operator 1	>= 1	lew Opt. 1	>	Change	d Opt. 1	? Y	Old Op	ot. 2	N	lew Op	t. 2		Cha	anged Opt. 23	,
Old Condensed Impact		Surface \	Vind		New C	ondens t	ed	;	Strong Su	rface W	/ind		Chang Impac	ged Condenso	ed Y
Old Full Impact	Surface	wind speed >	20 kts ii	mpacts t	he abili	ty to sa	fely per	form	terrain flig	ghts.					
New Full Impact	Surface	wind speed >	• 45 kts h	elicopte	r shoul	d not be	e started	i.	, , , , ,						
Old Source (	1st Cavain	/ Division, 19	92):									Ch	anged I	Full Impact?	Y
<u>r</u>		-228-10, Para		n 1996											
Comments															
Changed Source	? Y			Are The	re Any	(2) Optio	ons?	N				Any	Change	e to Record?	Y
ID # 162 Syst	tem Name			OH-5	ВС				Rule 1#	75	Ru	le 2#		Delete Rule	? Y
Old Color 2	New	Color									Cha	nged C	olor?		
Parameter 1 #	<b>20</b> Old	Param. 1 ID	surfac	cewindge	ıst	New P	aram. 1	ID	<del></del>				Cha	nged Param.	1?
Parameter 2 #		Param. 2 ID				J	aram. 2	<u> </u>					Cha	nged Param.	2?
Old Value 1		30			New Va	alue 1							 Chang	ged Value1?	
Old Value 2					New Va	alue 2							Chang	ged Value 2?	
Old Operator 1	>= 1	New Opt. 1		Change	d Opt. 1	?	Old Op	ot. 2	N	lew Op	t. 2			anged Opt. 21	· 🗀
Old Condensed Impact		Gus	t	, -		Condens	,						Chang Impad	ged Condens	ed
Old Full Impact	Surface	wind gust >=	30 kts e	xceeds t	he syst	em limi	ts to sta	rt er	ngines.						
New Full Impact															
Old Source	1st Cavair	y Division, 19	92):		.,			$\overline{}$				Ch	anged '	Full Impact?	
		e: No longer		nt											
Comments															
Changed Source	? <b>Y</b>			Are The	re Any	(2) Opti	ons?	N				Any	Change	e to Record?	Y

		IWE	DA Syst	em Rule	s			
ID # 163 Syst	tem Name	OH-58C			Rule 1 # 76	Rule 2 #	Delete Rule?	N
Old Color 1	New Color 2				<u> </u>	_ Changed C	olor? Y	
Parameter 1 #	12 Old Param. 1 ID	icingintensity	New Para	am. 1 ID	lcing		Changed Param. 1	? Y
Parameter 2 #	Old Param. 2 ID		New Par	am. 2 ID			Changed Param. 2	!? 🗀
Old Value 1	0	New \	/alue 1		None		Changed Value1?	Y
Old Value 2		New \	/alue 2				Changed Value 2?	
Old Operator 1	> New Opt. 1	> Changed Opt.	1? N	Old Opt. 2	New Op	ot. 2	Changed Opt. 2?	Ī
Old Condensed Impact	Icing Al	oft New Impa	Condensed ct		Icing Aloft		Changed Condensed Impact?	d N
Old Full Impact	Upper-level icing inte	nsity > none may degra	de perforn	nance.				
New Full Impact	Intentional flight in ar (~icing top) feet AGL.	y known icing conditio	on is prohit	ited, if the a	aircraft is flying			
Old Source	1st Cavalry Division, 199	)2):				Cha	anged Full Impact?	Y
ين ا	M 55-1520-235-10, Para							
Comments								
Changed Source	? Y	Are There Any	(2) Options	? N		Any (	Change to Record?	Y
ID # 164 Syste	em Name	OH-58C		F	Rule 1 # 77	Rule 2 # [	Delete Rule?	Y
Old Color 2	New Color					Changed Co	olor?	
Parameter 1 #	12 Old Param. 1 ID	icingintensity	New Para	m. 1 ID			Changed Param. 1	?
Parameter 2 #	Old Param. 2 ID		New Para	m. 2 ID			Changed Param. 2	?
Old Value 1	1	New V	alue 1				Changed Value1?	
Old Value 2		New V	alue 2				Changed Value 2?	
Old Operator 1	> New Opt. 1	Changed Opt.	1? 🗌 С	old Opt. 2	New Op	t. 2	Changed Opt. 2?	
Old Condensed Impact	Icing Al	oft New 0	Condensed ct				Changed Condensed Impact?	
Old Full Impact	IAW AR95-1, aircraft o	annot fly into areas of	icing inten	sity > light.				
New Full Impact								
Old Source (1	st Cavalry Division, 199	2);				Cha	inged Full Impact?	
New Source/ Reason for Delete	elete Rule: Not necessa	ary. See rule ID# 163						
Comments					<u> </u>			
Changed Source?	Y	Are There Any	(2) Options	? N		Any C	Change to Record?	Y

			· · · · · · · · · · · · · · · · · · ·	IWE	DA Sy	stem R	ules	···			···	
ID # 165 Syste	em Name			OH-58C			Rule 1	<b>#</b> 79	Rule 2	#	Delete Rule	? N
Old Color 1	New	Color 1							Change	d Color?	N	
Parameter 1 #	<b>24</b> Old	Param. 1 ID	turbule	nceintensity	New P	aram. 1 IC	Turb	ulence l	ntensity	Cha	anged Param. 1	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	anged Param. 2	2?
Old Value 1		1		New	Value 1		Moderate	9		Char	ged Value1?	Y
Old Value 2				New	Value 2					Char	ged Value 2?	
Old Operator 1	> 1	lew Opt. 1	<=	Changed Opt	. 1? Y	Old Opt.	2	New Op	ot. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Turbulend	e Aloft	New Impa	Condens	ed	Turbul	ence Al	oft	Char Impa	ged Condense ct?	ed N
Old Full Impact	Upper-le	vel turbulen	ce > light	intensity deg	rades flyi	ng safety.	•					
New Full Impact				derate intensi d on helicopt							e base) &	
Old Source (1	ist Cavain	y Division, 1	9921-				7			Changed	Full Impact?	Y
<u></u>		-228-10, Par		n 1996								
Reason for Delete	W 00*1020	-220-10,1 an										
Comments												
Changed Source?	? Y			Are There An	y (2) Optio	ons?	N		Д	ny Chang	e to Record?	Y
ID # 166 Syste	em Name			OH-58C			Rule 1	# 80	Rule 2	#	Delete Rule	? N
Old Color 2	New	Color 2							Change	d Color?	N	
Parameter 1 #	24 Old	Param. 1 ID	turbule	enceintensity		aram. 1 IE		ulence l	ntensity		anged Param.	
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 IE	)			Ch	anged Param. 2	2?
Old Value 1		2		New	Value 1		Moderat	e		Char	iged Value1?	Y
Old Value 2				3	Value 2	<u></u>				Char	iged Value 2?	
Old Operator 1	> 1	New Opt. 1	>	Changed Opt	. 1? N	Old Opt.	. 2	New O	pt. 2	Cł	nanged Opt. 2?	
Old Condensed Impact		Turbulen	ce Aloft	New Imp	v Condens act	ed	Severe Tu	rbulence	e Aloft	Char Impa	nged Condense ct?	ed Y
Old Full Impact	Upper-le	evel turbuler	ice > mod	lerate intensit	y exceeds	the oper	ating limits	•				
New Full Impact				lerate intensit vhen based or							lence base) & it	
Old Source	1et Cavalr	y Division, 1	002).				$\neg$			Changed	Full Impact?	Y
		)-228-10, Par		ın 1996								
Comments												
Changed Source	? Y			Are There Ar	ıy (2) Opti	ons?	N	•	1	ny Chang	ge to Record?	Υ

					WEDA	Sys	tem R	ules							
ID # 167 Sy	ystem Na	ıme		OH-586	C			Rule	e 1 #	85	Rule	2#		Delete Ru	le? N
Old Color	1	New Color 1									Chang	ged Co	lor?	N	
Parameter 1 #	13	Old Param. 1 ID	press	surealtitud	e 1	iew Pa	aram. 1 ID	)	Press	ure Al	titude		Cha	nged Param	ı. 1? N
Parameter 2 #		Old Param. 2 ID				lew Pa	aram. 2 ID	)					Cha	nged Param	1. 2?
Old Value 1		5000		] N	lew Valu	e 1		5000	) ft.				- Chang	ged Value1?	N
Old Value 2				N	lew Valu	ie 2							Chang	ged Value 2	?
Old Operator	1 >	New Opt. 1	>	Changed	Opt. 1?	N	Old Opt.	2	N	ew Op	t. 2		Cha	anged Opt. 2	2?
Old Condense Impact	ed	Pressure	Altitude		New Cor Impact	ndense	ed	High P	ressu	ıre Alti	tude		Chang Impac	ged Conden: t?	sed Y
Old Full Impact	t Ope	rating performa	nce of rot	ary wing a	ircraft is	decre	eased wh	en oper	ating	at pres	ssure	altitud	les > 5	5000 ft.	
New Full Impac	ot Ope	rating performa	nce of rot	ary wing a	ircraft is	decre	eased wh	en oper	ating	at pres	ssure	altitud	les > 5	5000 ft.	
								<del></del>				Cha	nged F	Full Impact?	N
Old Source		valry Division, 1													
New Source/ Reason for Delete		1520-228-10, Cha 30, Para 5-8, Sep		ın 1996						•					:
Comments															
Changed Source	ce?	Y		Are There	Any (2)	Option	ns?	N				Any C	hange	to Record?	Y
ID # <b>168</b> Sy	stem Na	me		OH-580	>			Rule	1#	86	Rule	2#		Delete Rul	e? <b>Y</b>
Old Color	2 N	lew Color								(	Chang	ed Col	or?		
Parameter 1 #	13	Old Param. 1 ID	press	urealtitude	€ N	lew Pa	ram. 1 ID						Char	nged Param	. 1? 🔃
Parameter 2 #		Old Param. 2 ID			N	lew Pa	ram. 2 ID						] Char	nged Param	. 2?
Old Value 1		10000		N	ew Valu	e 1 [						(	Chang	ed Value1?	
Old Value 2				N	ew Valu	e 2 [	•					(	Chang	ed Value 2?	,
Old Operator 1	1 >	New Opt. 1		Changed	Opt. 1?		Old Opt.	2	N	ew Opt	. 2		Cha	inged Opt. 2	!?
Old Condense Impact	d	Pressure A	Altitude		New Con mpact	dense	d					,	Chang mpac	ed Condens t?	sed
Old Full Impact		rating performar 00 ft. Actions ma										at pre	ssure	altitudes >	•
New Full Impac	rt [														
Old Source	(1st Ca	valry Division, 1	992);					7				Char	nged F	full Impact?	
New Source/ Reason for Delete	Delete conditi	Rule: This is too	restrictiv	/e as a red	conditi	on, Pil	ot has op	otions. I	t is in	cluded	in > !	5000 ft	as an	amber	
Comments															
Changed Sourc	ce? [	Y		Are There	Any (2)	Option	ns?	N				Any C	hange	to Record?	Y

				IWED	A Sy	stem Ru	ules					
ID # 169 Sy	stem Name		ОН	-58D			Rule 1	# 24	Rule 2#		Delete Rule	? Y
Old Color	1 New	Color							Changed (	Color?		
Parameter 1 #	22 Old	Param. 1 ID	temperatu	re	New P	aram. 1 ID				Char	nged Param.	1?
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Chai	nged Param.	2?
Old Value 1		100		New Va	alue 1					Chang	ed Value1?	
Old Value 2				New Va	alue 2					Chang	ed Value 2?	
Old Operator 1	1 >= 1	New Opt. 1	Chang	ged Opt. 1	?	Old Opt.	2	New Op	t. 2	Cha	inged Opt. 2?	·
Old Condense Impact	ed	Hot		New C	ondens	ed				Chang Impac	ed Condense	ed
Old Full Impact	Temper	ratures >= 100	F degrade airc	raft perfo	rmance	).						
New Full Impac	et											
									Cl	nanged F	full Impact?	
Old Source		ry Division, 19										
New Source/ Reason for Delete	Delete Rul	e: Based on	comment in TM	55-1520-2	248-10,	Para 8-36,	May 1997					
Comments												
Changed Source	ce? Y		Are Th	nere Any (	(2) Optic	ons? [	N		Any	Change	to Record?	Y
ID # 170 Sy	rstem Name		ОН	-58D			Rule 1	# 56	Rule 2#		Delete Rule	? N
Old Color	2 New	Color 1						·	Changed (	Color?	Y	
Parameter 1 #	10 Old	Param. 1 ID	freezingra	in	New P	aram. 1 ID	1	Freezing I	Rain	Chai	nged Param.	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID		-		 Chai	nged Param.	2? 🗍
Old Value 1		0		New Va	alue 1		None			 Chang	ed Value1?	Y
Old Value 2				New Va	alue 2					Chang	ed Value 2?	$\sqcap$
Old Operator	1 >	New Opt. 1	> Chang	ged Opt. 1	? N	Old Opt.	2	New Op	ot. 2	Cha	inged Opt. 2?	, <u> </u>
Old Condense Impact	ed	Freezing	Rain	New C	ondens t	ed	Free	ezing Rair	1	Chang Impac	ed Condenset?	ed N
Old Full Impact	Any oc	currence of fr	eezing rain dela	ys missio	on laun	ch becaus	e expose	d aircraft	must be de	eiced.		
New Full Impac	ct Any oc	currence of fr	eezing rain dela	ys missio	on laun	ch becaus	e expose	d aircraft	must be de	eiced.		
Old Source	(1st Caval	ry Division, 1	992);						C	hanged F	Full Impact?	N
New Source/ Reason for Delete	TM 55-152	0-248-10, Par	a 8-34, Jun 1997									
Comments												
Changed Source	ce? Y		Are T	here Any (	(2) Optio	ons?	N		Any	Change	to Record?	Υ

			IWEL	DA Sy	stem R	ules					
ID # 171 Syste	m Name	OH	1-58D			Rule 1	# 67	Rule 2#		Delete Rule	? N
Old Color 1	New Color 2							Changed (	Color?	Y	
Parameter 1 #	21 Old Param. 1 ID	surfacewind	speed	New P	aram. 1 IC	Surfa	ace Wind	Speed	Chai	nged Param.	1? N
Parameter 2 #	Old Param. 2 ID			New P	aram. 2 ID				Char	nged Param.	2?
Old Value 1	20		New V	alue 1		45 kts.			Chang	jed Value1?	Y
Old Value 2			New V	alue 2					Chang	ed Value 2?	
Old Operator 1	>= New Opt. 1	> Chan	ged Opt. 1	1? <b>Y</b>	Old Opt.	2	New Op	t. 2	Cha	inged Opt. 2?	, <u> </u>
Old Condensed Impact	Surface	Wind	New C	Condens t	ed	Strong S	Surface W	/ind	Chang Impac	jed Condense t?	ed Y
Old Full Impact	Surface wind speed	> 20 kts impact	s the abili	ity to tal	ke-off safe	ely.					
New Full Impact	When speed > 45 kt	s. helicopter sho	ould not b	e starte	d.						
Old Source (1s	st Cavalry Division, 1	002).				_		CI	hanged F	full Impact?	Υ
<u> </u>	M 55-1520-248-10, Par		7								
Comments											
Changed Source?	Y	Are T	here Any	(2) Optio	ons?	N		Any	Change	to Record?	Y
ID # 172 System	m Name	OH	I-58D			Rule 1 :	# 68	Rule 2#		Delete Rule	? Y
Old Color 2	New Color						LJ	Changed 0			
L	21 Old Param. 1 ID	surfacewind	speed	New P	aram. 1 ID	)				nged Param.	1?
Parameter 2 #	Old Param. 2 ID			]	aram. 2 ID		-		=	nged Param.	
Old Value 1	45		New Va	alue 1					 Chang	ed Value1?	Ī
Old Value 2			New Va	alue 2					Chang	ed Value 2?	
Old Operator 1	> New Opt. 1	Chan	ged Opt. 1	?	Old Opt.	2	New Opt	t. 2	Cha	nged Opt. 2?	. 🔲
Old Condensed Impact	Surface	Wind	New C	Condense t	ed				Chang Impact	ed Condense t?	d
Old Full Impact	Surface wind speed	> 45 kts exceed	s the sys	tem ope	ratin limit	ts to take-o	ff.				
New Full Impact											
Old Source (1s	st Cavalry Division, 1	992);						CI	hanged F	full Impact?	
New Source/ Reason for Delete	elete Rule: Duplicate	of ID# 171									
Comments											
Changed Source?	Y	Are T	here Any	(2) Optio	ns?	N		Any	Change	to Record?	Y

				IWE	DA Sy	stem F	Rule	S				
ID # 173 Sys	tem Name			OH-58D			i	Rule 1 # <b>75</b>	Rule 2	#	Delete Rule?	? N
Old Color 2	New	Color 2						L	Change	d Color?	N	
Parameter 1 #	<b>20</b> Old	Param. 1 ID	surfac	cewindgust	New P	aram. 1 i	D	Surface Win	d Gust	Cha	inged Param. 1	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 I	<u> </u>			Cha	inged Param. 2	2?
Old Value 1		30		New	Value 1			15 kts.		Chan	ged Value1?	Y
Old Value 2				New	Value 2					Chan	ged Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Changed Opt	. 1? N	Old Op	t. 2	New Op	t. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Gus	t	New Impa	Condens	ed		Wind Gust		Chan Impa	ged Condense ct?	d Y
Old Full Impact	Surface	e wind gust >:	= 30 kts e	xceeds the sy	stem limi	ts to star	t eng	ines.				
New Full Impact	Surface	e wind gust >	= 15 kts e:	xceeds the sy	stem limi	ts to star	rt eng	ines.		Channel	First Immedia	Y
Old Source	1st Caval	ry Division, 19	992):				$\neg$			Changed	Full Impact?	1
		0-248-10, Para		n 1997								
Comments								<del></del>				
Changed Source	?? Y			Are There An	y (2) Optio	ons?	N		Α	iny Chang	e to Record?	Υ
ID # 174 Sys	tem Name	;		OH-58D				Rule 1 # <b>76</b>	Rule 2	!#	Delete Rule	? N
Old Color 1	New	Color 2							Change	d Color?	Y	
Parameter 1 #	12 Old	i Param. 1 ID	icin	gintensity	New F	aram. 1 I	D	Icing Inter	sity	Cha	inged Param. 1	1? N
Parameter 2 #	Oic	i Param. 2 ID			New F	aram. 2 l	D			Cha	anged Param. 2	2?
Old Value 1		0		New	Value 1			None		Chan	ged Value1?	Y
Old Value 2				New	Value 2					Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1	>	Changed Opt	. 1? N	Old Op	t. 2	New Op	t. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Icing A	loft	New Impa	Condens	sed		Icing Aloft		Chan Impa	ged Condense ct?	d N
Old Full Impact	Upper-	level icing int	ensity > n	one may degi	rade perf	ormance	•					
New Full Impact	Intentio	onal flight into	any kno	wn icing cond	litions is	prohibite	d if fl	ying between (	-Icing b	ase) & (~l	cing tops) fee	t
_									,	Changed	Full Impact?	Y
Ļ	· · · · · · · · · · · · · · · · · · ·	ry Division, 1										,
New Source/ Reason for Delete	TM 55-152	20-248-10, Par	a 8-39, Ju	n 1997								
Comments								- ",				
Changed Source	∋? Y			Are There An	y (2) Opti	ons?	N		-	Any Chang	e to Record?	Y

Delete Rule: Not necessary. Covered in Sys ID# 174

Old Color

**impact** 

New Source/

Changed Source?

Y

Reason for Delete Comments

Υ

Any Change to Record?

# **IWEDA System Rules** OH-58D ID# 175 System Name Rule 1# Rule 2# Delete Rule? Y 2 **New Color** Changed Color? Parameter 1 # 12 Old Param. 1 ID icingintensity New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 1 New Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Icing Aloft **Changed Condensed New Condensed** Impact Impact? IAW AR95-1, aircraft cannot fly into areas of icing intensity > light. Old Full Impact New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992);

N

ID# 176 Sy	stem Nam	e		OH-58D				Rule 1#	Ru	le 2 #	Delet	e Rule?	N
Old Color	1 Ne	w Color 1							Cha	nged Co	lor? N		
Parameter 1 #	<b>24</b> O	d Param. 1 ID	turbulen	ceintensity	New Pa	aram.	1 ID	Turbule	nce Intens	ity	Changed P	aram. 1?	N
Parameter 2 #	01	d Param. 2 ID			New Pa	aram.	2 ID				Changed P	aram. 2? [	
Old Value 1		1		New Va	lue 1		ı	Moderate			Changed Val	ue1? [	Y
Old Value 2				New Va	lue 2						Changed Val	ue 2?	
Old Operator 1	>	New Opt. 1	<= (	Changed Opt. 1	? <b>Y</b>	Old (	Opt. 2	N	ew Opt. 2		Changed (	Opt. 2?	
Old Condensed Impact	d	Turbulend	e Aloft	New C Impact	ondense	ed		Turbulen	ce Aloft		Changed Col Impact?	ndensed	N
Old Full Impact	Upper	-level turbulen	ce > light i	ntensity degra	des flyi	ng saf	ety.						
New Full Impac				erate intensity if report is for	_	-	_			•	ence base) &	i.	
	<u> </u>				,					Cha	nged Full Imp	act?	Y
Old Source	(1st Cava	Iry Division, 19	992);										
New Source/ Reason for Delete	TM 55-15	20-248-10, Para	a 5-14, Jun	1997									
Comments													
Changed Source	e? <b>Y</b>		F	Are There Any (	2) Optio	ns?	N			Any C	hange to Red	cord?	Y

Are There Any (2) Options?

					IWED	A Sy	stem R	ules					
ID# 177 S	System Nan	ne		OH-5	8D			Rule	1 # 80	Rule 2#		Delete Rule?	N
Old Color	2 No	ew Color	2							Changed (	Color?	N	
Parameter 1	# 24 0	Old Param. 1 I	D turbul	enceinter	nsity	New P	aram. 1 IC	Tur	bulence	Intensity	Cha	inged Param. 1	? N
Parameter 2	# C	Old Param. 2 I	D			New P	aram. 2 IC				Cha	inged Param. 2	?
Old Value 1		2			New Va	alue 1		Modera	ate		Chan	ged Value1?	Y
Old Value 2					New Va	alue 2					Chan	ged Value 2?	
Old Operator	r1 >	New Opt. 1	>	Change	d Opt. 1	? N	Old Opt	. 2	New O	pt. 2	Ch	anged Opt. 2?	
Old Condens Impact	sed	Turbul	ence Aloft		New C	ondens t	ed	Severe T	urbulenc	e Aloft	Chan	ged Condensed ct?	Y
Old Full Impa	ict Uppe	er-level turbu	lence > mod	derate int	ensity e	exceeds	the oper	ating limit	ts.				
New Full Imp		er-level turbu bulence tops									~turbul	ence base) &	
Old Source	(1st Cav	alry Division	, 1992);							С	hanged	Full Impact?	Y
New Source/ Reason for Delete	<u> </u>	520-248-10, F		ın 1997									
Comments													
Changed Sou	ırce? Y	<u></u>		Are The	ere Any (	(2) Optio	ons?	N		Any	/ Chang	e to Record?	Y
ID# 178 S	System Nar	me T		OH-5	8D			Rule	1 # 85	Rule 2#		Delete Rule?	N
Old Color		ew Color	1							Changed (	L	N	
Parameter 1		Old Param. 1 I	D pres	surealtitu	ıde	New P	aram. 1 II	P	ressure A			nged Param. 1	? N
Parameter 2		Old Param. 2 I				New P	aram. 2 II	D				inged Param. 2	드
Old Value 1		5000		7	New Va	alue 1		5000	ft.			ged Value1?	N
Old Value 2	<u></u>			1	New Va	alue 2						ged Value 2?	
Old Operato	r 1 >	New Opt. 1	>	_ │ Change	ed Opt. 1	? N	Old Opt	. 2	New O	pt. 2	Ch	anged Opt. 2?	
Old Condens	L	Pressu	re Altitude		New C	ondens			essure A	Ititude	Chan Impa	ged Condensed	Y
Old Full Impa	act Oper	rating perform	nance of ro	tary wing	aircraft	t is dec	reased wi	nen opera	ting at pr	essure altit	udes >	5000 ft.	
New Full Imp	act Oper	rating perform	nance of ro	tary wing	aircraft	t is dec	reased wi	nen opera	ting at pr	essure altit	udes >	5000 ft.	
				· · · · · · -						C	hanged	Full Impact?	N
Old Source	(1st Cav	alry Division	, 1992);										
New Source/ Reason for Delete		520-248-10, 0 0, Para 5-8, S		lay 1997									
Comments		,											
Changed Sou	urce?	<b>Y</b>		Are The	ere Any	(2) Option	ons?	N	<u></u>	Any	y Chang	e to Record?	Y

## **IWEDA System Rules** OH-58D Delete Rule? Y ID# 179 System Name Rule 1# 86 Rule 2# 2 Changed Color? Old Color New Color Parameter 1 # 13 Old Param. 1 ID pressurealtitude New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? New Value 1 10000 Old Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Pressure Altitude **New Condensed Changed Condensed** Old Condensed Impact Impact Impact? Operating performance of rotary wing aircraft is significantly decreased when operating at pressure altitudes > Old Full Impact 10,000 ft. Actions may be required to reduce payload or fuel to retain lift capability. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: This is too restrictive as a red condition, pilot has options. It is included in > 5000 ft as an amber condition. New Source/ Reason for Delete Comments Υ Changed Source? N Any Change to Record? Υ Are There Any (2) Options? **OV-1** Rule 1 # 28 Rule 2# Delete Rule? ID# 180 System Name Old Color New Color Changed Color? snowdepth New Param. 1 ID Changed Param. 1? Parameter 1 # 18 Old Param. 1 ID New Param. 2 ID Changed Param. 2? Old Param. 2 ID Parameter 2 # Changed Value1? Old Value 1 3 New Value 1 Old Value 2 New Value 2 Changed Value 2? Old Opt. 2 Changed Opt. 2? Changed Opt. 1? New Opt. 2 Old Operator 1 New Opt. 1 **Snow Cover New Condensed** Changed Condensed Old Condensed Impact? Impact Impact Old Full Impact Snow depth >= 3 inches on the runway degrades aircraft braking. New Full Impact Changed Full Impact? (1st Cavalry Division, 1992); Old Source New Source/ Delete Rule: No longer in inventory Reason for Delete Comments Υ N Υ Changed Source? Are There Any (2) Options? Any Change to Record?

# **IWEDA System Rules** ID# 181 System Name OV-1 Rule 1# 29 Rule 2# Delete Rule? **New Color** Old Color Changed Color? 18 New Param. 1 ID Parameter 1 # Old Param. 1 ID snowdepth Changed Param. 1? New Param. 2 ID Parameter 2 # Old Param. 2 ID Changed Param. 2? Old Value 1 6 New Value 1 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Old Operator 1 New Opt. 1 Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed **Snow Cover New Condensed** Changed Condensed Impact Impact Impact? Old Full Impact Snow depth >= 6 inches on the runway significantly degrades aircraft braking. New Full Impact Changed Full Impact? (1st Cavalry Division, 1992); Old Source New Source/ Delete Rule: No longer in inventory Reason for Delete Comments Y Y Changed Source? Are There Any (2) Options? N Any Change to Record? **OV-1** Rule 2# Delete Rule? ID# 182 System Name Rule 1# 32 Old Color 2 **New Color** Changed Color? New Param. 1 ID Changed Param. 1? Old Param. 1 ID thunderstorm Parameter 1 # New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID New Value 1 Changed Value1? Old Value 1 yes New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Changed Condensed Old Condensed Thunderstorm New Condensed Impact Impact? Impact Old Full Impact Any occurrence of thunderstorms curtail aircraft and refueling operations due to safely considerations. **New Full Impact** Changed Full Impact? **Old Source** (1st Cavalry Division, 1992); New Source/ Delete Rule: No longer in inventory Reason for Delete Comments Υ N Υ Any Change to Record? Changed Source? Are There Any (2) Options?

### **IWEDA System Rules** ID# 183 OV-1 Rule 1# 56 Rule 2# Delete Rule? System Name Old Color 2 New Color Changed Color? Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Changed Param. 1? Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Value 1 New Value 1 0 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Changed Opt. 1? Old Opt. 2 Old Operator 1 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Condensed Freezing Rain **New Condensed** Changed Condensed Impact Impact Impact? Old Full Impact Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: No longer in inventory New Source/ Reason for Delete Comments Υ Changed Source? Υ Are There Any (2) Options? N Any Change to Record? OV-1 77 Rule 2# Delete Rule? ID# 184 System Name Rule 1# Old Color **New Color** Changed Color? icingintensity New Param. 1 ID Changed Param. 1? Parameter 1 # 12 Old Param. 1 ID New Param. 2 ID Changed Param. 2? Old Param. 2 ID Parameter 2 # Trace Old Value 1 New Value 1 Changed Value1? 1 Old Value 2 New Value 2 Changed Value 2? Old Opt. 2 Changed Opt. 1? New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Changed Condensed Old Condensed Icing Aloft **New Condensed** Impact? Impact Impact Old Full Impact Upper-level icing intensity > light may degrade performance. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ Delete Rule: No longer in inventory Reason for Delete Comments Y N Υ Any Change to Record? Changed Source? Are There Any (2) Options?

					IWE	DA Sy	stem	Rui	es						
ID # 185 Sy	ystem Nam	ie		OV-	1				Rule 1	<b>#</b> 78	Rul	le 2 #		Delete Rule	? <b>Y</b>
Old Color	2 Ne	w Color									Char	nged C	olor?		
Parameter 1 #	12 0	ld Param. 1 ID[	icin	gintensit	у	New P	aram.	1 ID					Cha	nged Param.	1?
Parameter 2 #	0	ld Param. 2 ID				New P	aram. :	2 ID	Changed Para						2?
Old Value 1		2			New V	alue 1			Changed Val						
Old Value 2				]	New V	alue 2							Chang	ged Value 2?	
Old Operator	1 >	New Opt. 1		Change	d Opt.	1?	Old (	Opt. 2		New Op	ot. 2		Cha	anged Opt. 23	,
Old Condense Impact	ed	lcing /	Aloft		New 0	Condens ct	ed						Chang Impac	ged Condense t?	ed
Old Full Impac	t IAW A	R95-1, aircraft	cannot fl	y into ar	eas of i	icing int	ensity	> mod	derate.						
New Full Impa	ct														
Old Source	(1st Cava	alry Division, 1	9921:	······								Ch	anged F	Full Impact?	
New Source/ Reason for Delete		ule: No longer		ory											
Comments															
Changed Sour	rce? Y			Are The	ere Any	(2) Optic	ons?	N	]			Any	Change	to Record?	Y
ID # 186 S	ystem Nam	ne		OV-	1				Rule 1	<b>#</b> 79	Rul	le 2 #		Delete Rule	? <b>Y</b>
Old Color	1 Ne	w Color									Char	nged C	olor?		
Parameter 1 #	24 0	ld Param. 1 ID	turbule	enceinter	nsity	New P	aram.	1 ID					Char	nged Param.	1?
Parameter 2 #	o	ld Param. 2 ID				New P	aram.	2 ID					_ Chai	nged Param.	2?
Old Value 1		1			New V	alue 1							Chang	ged Value1?	
Old Value 2					New V	alue 2				,			Chang	ged Value 2?	
Old Operator	1 >	New Opt. 1		Change	d Opt.	1?	Old (	Opt. 2		New Op	ot. 2		Cha	anged Opt. 27	,
Old Condense impact	ed	Turbulen	ce Aloft		New (	Condens ct	ed						Chang Impac	jed Condense t?	ed
Old Full Impac	t Uppe	r-level turbuler	nce > light	t intensit	y degra	ades flyi	ng saf	ety.							
New Full Impa	ct														
Old Source	(1st Cava	alry Division, 1	992);									Ch	anged I	Full Impact?	
New Source/ Reason for Delete	<u> </u>	ule: No longe		ory											
Comments				,											
Changed Sour	rce? Y			Are The	ere Any	(2) Option	ons?	N				Any	Change	e to Record?	Y

					<u> </u>	NEDA S	yster	n Rul	es					
ID# 187	Sys	tem Name	÷		OV-1				Rule 1#	80	Rule 2	#	Delete Rule	e? Y
Old Color	2	. Nev	w Color								Change	d Color	?	
Parameter <sup>2</sup>	1#	24 Old	d Param. 1 ID	turbule	enceintens	ity New	Param	. 1 ID			,,,,		Changed Param.	1?
Parameter 2	2 #	Ok	d Param. 2 ID			New	Param	2 ID				-	Changed Param.	2?
Old Value	1		2		N	ew Value 1						Ct	anged Value1?	
Old Value	2				N	ew Value 2						Ch	anged Value 2?	
Old Operat	or 1	>	New Opt. 1		Changed	Opt. 1?	Old	Opt. 2	N	lew Op	t. 2		Changed Opt. 2	?
Old Conde	nsed		Turbulen	ice Aloft		New Conde	nsed						anged Condens pact?	ed
Old Full Imp	act	IAW A	R95-1, aircraf	t will not b	oe flown in	to known o	r forec	ast area	s of sever	e turb	ulence.			
New Full im	pact													
Old Source	ī	1st Caval	lry Division, 1	992):								Chang	ed Full Impact?	
New Source Reason for Delete	Ľ		le: No longe		огу	· · · · · · · · · · · · · · · · · · ·								
Comments	Ī													
Changed So	ource	? Y			Are There	Any (2) Op	tions?	N			А	ny Cha	nge to Record?	Y
ID # 188	Syst	tem Name			PPS-5E	<b>3</b>			Rule 1#	7	Rule 2		Delete Rule	? N
Old Color	1	Nev	v Color 1					,			Change		L	
Parameter 1	#	22 Old	i Param. 1 ID	ten	perature	New	Param.	1 ID	Ter	nperat	ure		Changed Param.	
Parameter 2	2#_	Old	d Param. 2 ID			New	Param.	2 ID					Changed Param.	2?
Old Value 1	1		-25		]	ew Value 1			- 25 F				anged Value1?	N
Old Value 2	١				1	ew Value 2	_						anged Value 2?	
Old Operat	or 1	<=	New Opt. 1	<=	Changed (	Opt. 1?	N Old	Opt. 2	N	lew Op	t. 2		Changed Opt. 21	
Old Conder Impact	nsed		Co	ld	1 -	lew Conde mpact	nsed		Extrem	e Cold			anged Condens pact?	ed Y
Old Full Imp	act	Tempe	ratures <= -2	5 F make	operating t	he PPS-5B	difficul	t witho	ut a shelte	r.				
New Full Im	pact	Tempe	ratures <= -2	5 F make (	operating t	ne PPS-5B	difficul	t witho	ut a shelte	r.				
Old Source	(	1st Caval	ry Division, 1	992);								Change	ed Full Impact?	N
New Source Reason for Delete			10-298-12, Par		n 1986									
Comments								-	,					
Changed So	urce	? Y			Are There	Any (2) Op	tions?	N	]		Α	ny Cha	nge to Record?	Y

			_	IWED	A Sy	stem	Rule	es					
ID # 189 Sy	stem Name			PPS-5B				Rule 1#	12	Rule 2#		Delete Rule?	? N
Old Color	2 New	Color 2								Changed (	Color?	N	
Parameter 1 #	<b>22</b> Old	Param. 1 ID	terr	New Param. 1 iD				Те	mperat	ure	Cha	inged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2	ID				Cha	inged Param. 2	2?
Old Value 1		-40		New Value 1				- 40 F			Chan	ged Value1?	N
Old Value 2				New V	alue 2						Chan	ged Value 2?	
Old Operator 1	1 <=	New Opt. 1	<=	Changed Opt. 1	l? N	Old O	pt. 2		New Op	t. 2	Ch	anged Opt. 2?	
Old Condense Impact	d	Co	d	New Condensed Impact				Extren	ne Cold		Chan Impa	ged Condense ct?	d Y
Old Full Impact	Temper	atures <= -4	F exceed	the operationa	l limits.	•							
New Full Impac	Extrem	e Cold Temp	eratures <	<= -40F can snap	o cable	lines, d	ecrea	se batter	/ life, ca				
Old Source	(1st Cavali	y Division, 1	9921-		· · · ·					C	nanged	Full Impact?	Y
New Source/ Reason for Delete				lverse Weather:	, Para "	Radar S	Syster	ns", Jan	1991				
Comments													
Changed Source	ce? Y			Are There Any	(2) Optio	ons?	N			Any	Chang	e to Record?	Y
ID# 190 Sy	stem Name			PPS-5B				Rule 1#	53	Rule 2#		Delete Rule?	? N
Old Color	1 New	Color 1			_					Changed (		N	
Parameter 1 #	14 Old	Param. 1 ID		rain	New P	aram. 1	ID		Rain		Cha	anged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2	ID_			· · · · · · · · · · · · · · · · · · ·	Cha	anged Param. 2	2?
Old Value 1		0		New V	aiue 1			None			Chan	ged Value1?	Y
Old Value 2				New V							Chan	ged Value 2?	
Old Operator	1 >	New Opt. 1	>	Changed Opt. 1	1? N		pt. 2		New Op	t. 2	Ch	anged Opt. 2?	
Old Condense Impact	ed	Precipi	tation	New 0	Condens t	ed [		R	ain		Chan Impa	ged Condense ct?	d Y
Old Full Impact				uses backgroun of small targets (				s target i	dentific	ation diffic	ult. Ho	owever, heay	
New Full Impac				uses backgroun of small targets				s target i	dentific	ation diffic	ult. Ho	owever, heavy	
										С	hanged	Full Impact?	N
Old Source New Source/ Reason for Delete		ry Division, 1 0-298-12, Pa		ın 1986									
Comments					-								
Changed Sour	ce? Y			Are There Any	(2) Opti	ons?	N	]		Any	Chang	e to Record?	Υ

				1\	WED	A Sy	stem	Rul	es							
ID # 191 Syste	m Name			PPS-5	3				Rule 1#	58	Rule	2#		Delete Ru	e? N	
Old Color 1	New	Color 1									Change	ed Co	lor?	N		
Parameter 1 #	17 Old	Param. 1 ID		snow		New P	aram. 1	ID.		Snow			Cha	nged Param	. 1? N	]
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	מו י					Cha	nged Param	. 2?	Ī
Old Value 1		3		N	lew Va	alue 1			Heavy				- Chang	ged Value1?	Y	آ
Old Value 2				N	lew Va	alue 2							Changed Value 2?			j
Old Operator 1	= 1	lew Opt. 1	=	Changed	Opt. 1	? N	Old C	pt. 2	N	lew Op	t. 2		Changed Opt. 2?			٦
Old Condensed Impact		Sno	w		New C	ondens	ed		Heavy	Snow			_ Chang Impac	ged Condens t?	sed Y	]
Old Full Impact	Heavy s	nowfall mak	es the de	tections of	small	target	s (peop	le) di	fficult.							
New Full Impact	Heavy s	nowfall mak	es the det	tection of s	small 1	targets	(people	e) diff	icult.							
Old Source (1s	t Cavain	Division, 1	992);									Cha	nged f	Full Impact?	N	J
New Source/ Reason for Delete		hapter 1, Se	ction "Ac	iverse Wea	ather",	, Para "	Radar (	Syste	ms", and A	ppend	dix D, P	ara "	GSR S	Systems", J	an	
Comments											•	-				
Changed Source?	Υ			Are There	Any (	2) Optic	ons?	N	]		,	Any C	hange	to Record?	Υ	]
ID # 192 System	n Name			PPS-5E	3				Rule 1#	64	Rule	2#		Delete Rui	e? <b>Y</b>	
Old Color 1	New	Color									Change	ed Co	or?			
Parameter 1 #	21 Old I	Param. 1 ID	surfac	ewindspee	ed	New P	aram. 1	ID					Chai	nged Param	. 1?	
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID					Chai	nged Param	. 2?	
Old Value 1		15		N	lew Va	lue 1							Chang	jed Value1?		
Old Value 2				N	lew Va	lue 2							Chang	jed Value 2?	,	
Old Operator 1	> N	lew Opt. 1		Changed	Opt. 1	?	Old O	pt. 2	N	ew Op	t. 2		Cha	anged Opt. 2	?	1
Old Condensed Impact		Surface	Wind	1	New C	ondens	ed						Chang Impac	jed Condens t?	ed	]
Old Full Impact	Surface	wind speed	> 15 kts a	ind heavy	vegeta	ation m	akes ta	rget o	detection d	ifficult	due to	heav	y bac	kground no	ise.	
New Full Impact																
Old Source (1s	t Cavain	Division, 19	992):									Chai	nged F	Full Impact?		
New Source/ De		: TM11-5840		Jun 1967, (	Opera	tor's M	anual n	nakes	no mentio	on of th	nis wind	d imp	act in	unusual		
Comments					-											
Changed Source?	Υ			Are There	Any (	2) Optic	ons?	N	]		,	Any C	hange	to Record?	Y	]

					IWEL	OA Sy	stem	Rule	es							
ID # 193 Syst	em Name			PPS-	-5B				Rule 1#	65	Rule	2#[		Delete Ru	le?	Y
Old Color 2	New	Color									Chang	ged Co	olor?			
Parameter 1 #	21 Old I	Param. 1 ID	surfac	ewindsp	eed	New P	aram.	1 ID					Cha	nged Param	1. 1?[	
Parameter 2 #	Old I	Param. 2 ID				New P	aram.	2 ID					Cha	nged Param	1. 2?[	
Old Value 1		40			New V	alue 1							Chang	ged Value11	, [	
Old Value 2					New V	alue 2							Chang	ged Value 2	? [	
Old Operator 1	>= N	lew Opt. 1		Change	ed Opt. 1	1?	Old	Opt. 2		New Op	t. 2		Cha	anged Opt.	2? [	
Old Condensed Impact		Surface	Wind		New C	Condens t	ed						Chang Impac	ged Conden tt?	sed	
Old Full Impact		wind speed und noise.	>= 40 kts	and hea	vy vege	etation i	nakes	target	detection	very d	lifficul	t due	to exc	essive		
New Full Impact																
Old Source	1st Cavalry	Division, 19	992);		<u> </u>							Cha	inged I	Full Impact?	' [	
	Delete Rule conditions.	: TM11-5840	)-298-12,	Jun 1967	7, Opera	ator's M	anual	makes	no menti	ion of th	nis wir	nd imp	oact in	unusual		
Comments			,													=
Changed Source	? Y			Are The	ere Any	(2) Optio	ons?	N				Any C	Change	e to Record	? [	Y
ID # 194 Syst	em Name			RC-	12				Rule 1 #	32	Rule	2#[		Delete Ru	le?	N
Old Color 1	New	Color 1									Chang	ged Co	olor?	N	_	
Parameter 1 #	23 Old I	Param. 1 ID	thu	nderstor	m	New P	aram.	1 ID	Th	underst	torm		Cha	nged Paran	1. 1?	N
Parameter 2 #	Old I	Param. 2 ID				New P	aram.	2 ID					Cha	nged Paran	1. 2?	
Old Value 1		1			New V	alue 1			yes				Chang	ged Value13	' [	Y
Old Value 2					New V	alue 2							Chang	ged Value 2	? [	
Old Operator 1	= N	lew Opt. 1	=	Change	ed Opt.	1? N	Old	Opt. 2		New Op	t. 2		Cha	anged Opt.	2? [	
Old Condensed Impact		Thunder	storm		New 0	Condens t	ed		Thund	erstorn	n		Chang Impac	ged Conden t?	sed [	N
Old Full Impact	Any occ	urrence of t	hundersto	orms ma	y cause	delay (	of mis	sion la	unch and	limit a	reas o	f oper	ation.			
New Full Impact	Any occ	urrence of t	hundersto	orms ma	y cause	e delay (	of mis	sion la	unch and	limit a	reas o	f oper	ation.			
Old Source [	1st Cavaln	Division, 1	992);									Cha	anged	Full Impact?	' [	N
New Source/ Reason for Delete	TM 55-1510	-218-10, Par	a 8-63, Fe	b 1994												
Comments																
Changed Source	? Y			Are The	ere Any	(2) Opti	ons?	N				Any (	Change	e to Record	? [	Y

#### **IWEDA System Rules RC-12** ID# 195 System Name Rule 1# 33 Rule 2# Delete Rule? N Old Color **New Color** Changed Color? N Parameter 1 # Old Param. 1 ID hail New Param. 1 ID Hail Changed Param. 1? | N New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID Old Value 1 New Value 1 Changed Value1? yes Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 Old Condensed Hail **New Condensed** Hail Changed Condensed Impact Impact? Impact Old Full Impact Any occurrence of hail may cause delay of mission launch and limit areas of operation. Hail will damage aircraft and sensors and may force mission delays or deviations. Any occurrence of hail may cause delay of mission launch and limit areas of operation. Hail will damage aircraft New Full Impact and sensors and may force mission delays or deviations. N Changed Full Impact? Old Source (1st Cavalry Division, 1992); FM 1-230, Para 12-7, Sep 1982 New Source/ Reason for Delete Comments Y Are There Any (2) Options? N Any Change to Record? Changed Source? Υ **RC-12** Rule 1# 56 Rule 2# Delete Rule? N ID# 196 System Name N Changed Color? Old Color 2 **New Color** 2 10 Old Param. 1 ID freezingrain New Param. 1 ID Freezing Rain Changed Param. 1? Parameter 1 # Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID 0 New Value 1 Moderate Changed Value1? Old Value 1 New Value 2 Changed Value 2? Old Value 2 Old Operator 1 Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? New Opt. 1 New Opt. 2 **New Condensed** Heavy Freezing Rain Changed Condensed Freezing Rain Old Condensed Impact Impact Freezing rain may delay mission launch and recovery due to icy runway conditions and deicing of aircraft. Old Full Impact Freezing rain > moderate creates conditions unsafe for aircraft operations. Mission may be canceled or delayed due New Full Impact to icing. Y Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ TM 55-1510-218-10, Para 8-64, Feb 1994 Reason for Delete Comments TM did not mention intensity. Our best estimate. Υ Υ Are There Any (2) Options? N Any Change to Record? Changed Source?

		IWE	JA System i	Kules			
ID # 197 Syste	m Name	RC-12		Rule 1 # 58	Rule 2 #	Delete Rule?	N
Old Color 1	New Color 1				Changed Color	r? N	
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1	D Sno	w (	Changed Param. 1	? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	D		Changed Param. 2	?
Old Value 1	3	New V	/alue 1	Heavy	Cl	hanged Value1?	Y
Old Value 2		New V	/alue 2	*	CI	hanged Value 2?	
Old Operator 1	= New Opt. 1	= Changed Opt.	1? N Old Op	t. 2 New C	)pt. 2	Changed Opt. 2?	
Old Condensed Impact	Snov	New (	Condensed ct	Heavy Sno		hanged Condensed pact?	Y
Old Full Impact	Heavy snow delays m	ission launch and reco	very due to low	ceilings and visibil	ties.		
New Full Impact	Heavy snow delays m	nission launch and reco	very due to low	ceilings and visibil	ties.		
_					Chang	ged Full Impact?	N
<u> </u>	st Cavalry Division, 19						
New Source/ Reason for Delete	R 95-1, Para 5-2(d)5, Ma	ay 1990					
Comments						-	
Changed Source?	Y	Are There Any	(2) Options?	N	Any Cha	ange to Record?	Υ
ID # 198 Syste	em Name	RC-12		Rule 1 # 66	Rule 2 #	Delete Rule?	N
Old Color 1	New Color 1				Changed Color	r? N	
Parameter 1 #	21 Old Param. 1 ID	surfacewindspeed	New Param. 1	ID Surface Wi	nd Speed	Changed Param. 1	? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID		Changed Param. 2	!?
Old Value 1	25	New \	/alue 1	25 kts.	CI	hanged Value1?	N
Old Value 2		New \	/alue 2		CI	hanged Value 2?	
Old Operator 1	>= New Opt. 1	> Changed Opt.	1? Y Old Op	ot. 2 New 0	Opt. 2	Changed Opt. 2?	L
Old Condensed Impact	Surface 1	Wind New Impa	Condensed ct	Surface Wi		hanged Condensed pact?	d N
Old Full Impact	Surface winds > 25 k	ts degrade aircraft abili	ty to take off and	l land safely.			
New Full Impact	Surface winds > 25 k	ts may degrade aircraft	ability to take of	f and land safely.			
Old Source (1	st Cavalry Division, 19	921:			Chanç	ged Full Impact?	Y
New Source/ Tile Reason for In	M 55-1510-218-10, Para	8-33, Dec 1994 Benham, Instructor Pilo	ot C12, Chief Avi	ation Applied Tech	nology Division,	, Felker Army Airf	ield,
Comments							
Changed Source?	? <b>Y</b>	Are There Any	(2) Options?	N	Any Ch	ange to Record?	Y

				IWE	DA Sy	stem R	ules					
ID # 199 Sy	ystem Name	<b>&gt;</b>		RC-12			Rule 1 #	68	Rule 2#		Delete Rule?	? Y
Old Color	2 Nev	w Color							Changed C	olor?		
Parameter 1 #	21 Ol	d Param. 1 ID	surfac	ewindspeed	New P	aram. 1 ID				Cha	anged Param. 1	1?
Parameter 2 #	Oi	d Param. 2 ID			New P	aram. 2 ID				Cha	anged Param. 2	2?
Old Value 1		45		New '	Value 1					 Chan	ged Value1?	
Old Value 2				New '	Value 2				司	Chan	ged Value 2?	
Old Operator	1 >	New Opt. 1		Changed Opt.	1?	Old Opt.	2 N	lew Opt	i. 2	Ch	anged Opt. 2?	
Old Condense Impact	ed	Surface	Wind	New Impa	Condens	ed	Name of the last o			Chan Impa	ged Condense	d
Old Full Impac	Surfac	e winds > 45 k	ts exceed	d aircraft abilit	y to take	off and lai	nd safely.					
New Full Impac	ct											
Old Source	(1st Cava	Iry Division, 19	92);						Ch	anged	Full Impact?	
New Source/ Reason for Delete	Delete Ru	le: No mentio	n in TM 5	5-1510-218-10,	Feb 199	4	<del>-</del>			, ,		
Comments												
Changed Source	ce? Y			Are There Any	(2) Optic	ms!	N		Any	Change	e to Record?	Υ
ID # 200 Sy	stem Name	;		RC-12			Rule 1#	78	Rule 2#		Delete Rule?	N
Old Color	2 Nev	v Color 1						(	Changed Co	olor?	Y	
Parameter 1 #	12 Old	i Param. 1 ID	icing	gintensity	New P	aram. 1 ID	lcin	g Inten	sity	Cha	nged Param. 1	? N
Parameter 2 #	Old	d Param. 2 ID			New P	aram. 2 ID				Cha	inged Param. 2	?
Old Value 1		2		New \	/alue 1		Moderate			Chang	ged Value1?	Y
Old Value 2				New \	/alue 2					Chang	ged Value 2?	
Old Operator 1	1 >	New Opt. 1	>	Changed Opt.	1? N	Old Opt.	2 N	ew Opt	. 2	Cha	anged Opt. 2?	
Old Condense Impact	d	Icing A	loft	New Impa	Condense ct	ed	Severe Ic	ing Alo	ft	Chang Impac	ged Condensed ct?	d Y
Old Full Impact	, -	loft > moderate is engaged.	e creates	conditions wh	ich exce	ed aircraft	ability to fly	safely,	even with	anti-io	ing and deici	ng
New Full Impac		loft > moderate is engaged, if								anti-io	ing and deici	ng
Old Course	Mat Caval	n. Division 40	02).				٠.,		Cha	anged I	Full Impact?	Y
Old Source		ry Division, 19		1994								
New Source/ Reason for Delete	TGE-CC IVI	0-218-10, Para	o-04, rei	J 1334							. •	
Comments										<del></del>		
Changed Source	ce? Y		2117182	Are There Any	(2) Optio	ns?	N	***	Anv (	Change	e to Record?	Y

				IWE	EDA Sy	stem	Rule	S						
ID # 201 Syste	em Name			RC-12				Rule 1#	79	Rule	2#		Delete Rule	? <b>Y</b>
Old Color 1	New (	Color								Change	ed Colo	r? [		
Parameter 1 #	<b>24</b> Old F	Param. 1 ID	turbule	enceintensity	New F	Param. 1	ID_					Chang	ed Param.	1?
Parameter 2 #	Old F	Param. 2 ID			New F	aram. 2	D					Chang	ed Param.	2?
Old Value 1		1		New	Value 1						С	hange	d Value1?	
Old Value 2				New	Value 2						C	hange	d Value 2?	
Old Operator 1	> N	ew Opt. 1		Changed Op	t. 1?	Old O	ot. 2	١	lew Op	t. 2		Chan	ged Opt. 2?	? 🔲
Old Condensed Impact		Turbulend	e Aloft	Nev Imp	v Condens act	sed					I	hange	d Condense	ed
Old Full Impact	Turbuler	nce > light a	loft make	s the platform	unstable	and de	grades	sensor	perform	nance.				
New Full Impact														
											Chang	ed Fu	II Impact?	
Old Source (1	st Cavalry	Division, 1	992);											
New Source/ Reason for Delete	elete Rule	: Not signif	icant. See	Rule ID# 202										
Comments														
Changed Source?	Y			Are There Ar	ıy (2) Opti	ons?	N			4	Any Ch	ange to	o Record?	Υ
	em Name			RC-12				Rule 1#	80	Rule	ـــــا		Delete Rule	? N
Old Color 2	New	L	4 - 1 - 1		N			Tueland			ed Colo	L	r jed Param.	12 N
Parameter 1 #		Param. 1 ID	turbuie	enceintensity		Param. 1	<u> </u>	Turbui	ence Ir	iterisity			•	
Parameter 2 #	Ola I	Param. 2 ID		] No		Param. 2		1-44-					ged Param.	21 Y
Old Value 1		2		_	Value 1 Value 2			loderate				_	d Value1? d Value 2?	
Old Value 2		law Oat 1		Changed Op			nt 2		New Op				ged Opt. 21	, 🗀
Old Operator 1 Old Condensed	<u> </u>	lew Opt. 1 Turbulen	oo Aloft	<u></u>	v Conden			/ere Turb					d Condens	
Impact		i urbuleti	Ce Aluit	_	act	Seu	361	reie iuit		Alon	_	npact?		ed Y
Old Full Impact		nce > moder conditions fo		makes the pla	tform vei	y unstal	ole, se	verely de	egrades	senso	r perfo	rmano	ce, and cre	ates
New Full Impact		. Flying in th		ce forecast b s will make co										ed
											Chan	ged Fu	ill Impact?	Υ
Old Source (1	ist Cavain	y Division, 1	992);											
Reason for Ir	nterview w	)-218-10, Par rith Mr. Johr VA, Aug 199	Benham	eb 1994 , Instructor P	ilot C12, (	Chief Av	iation	Applied <sup>*</sup>	Techno	ology d	ivision,	Felke	er Army Air	field,
Comments														
Changed Source	? Y			Are There A	ny (2) Opt	ions?	N				Any Ch	ange t	to Record?	Y

						IWE	DA Sy	sten	ı Rul	es						
ID # 203	Syster	n Name			TLQ-	17A				Rule 1#	3	Rule	2#		Delete Rule	? N
Old Color	2	New	Color 2									Change	ed Colo	r?	N	
Parameter 1	#	8 Old	Param. 1 ID	е	levation		New F	aram.	1 ID	Free	zing F	Rain		Chan	ged Param.	1? Y
Parameter 2	#	Old	Param. 2 ID				New F	aram.	2 ID					Chan	ged Param.	2?
Old Value 1			10000		]	New V	alue 1			Light			С	hange	d Value1?	Y
Old Value 2	: -					New V	alue 2						C	hange	d Value 2?	
Old Operato	or 1	>= 1	lew Opt. 1	>=	Change	ed Opt.	1? N	Old	Opt. 2	N	ew Op	t. 2		Chan	ged Opt. 2?	
Old Conden Impact	sed		Elevati	on		New 0	Condens at	ed	M	loderate Fr	ezing	Rain		hange	d Condense	ed Y
Old Full Impa	act	Operatir	ng at elevatio	ns >= 10	,000 feet	exceed	ds the s	ystem	specif	fications.						
New Full Imp	pact	The LPA	antenna and	l mast w	ill not op	erate p	roperly	with r	nore th	nan 1/4 incl	ı ice b	uildup.				
Old Source	(1s	t Cavair	Division, 19	92):			······································						Chang	jed Fu	ill Impact?	Y
New Source/ Reason for Delete	ļ		-301-10, Para		or 1992											
Comments																
Changed So	urce?	Y			Are The	re Any	(2) Optio	ons?	N			A	Any Cha	ange t	o Record?	Y
ID # 204	Systen	n Name			TPQ	-36				Rule 1#	69	Rule 2	2#		Delete Rule?	? N
Old Color	1	New	Color 1									Change	d Color	?	N	
Parameter 1	# 2	1 Old I	Param. 1 ID	surfac	ewindsp	eed	New P	aram.	1 ID	Surface	Wind	Speed		Chang	ed Param. 1	? N
Parameter 2	#	Old i	Param. 2 ID				New P	aram.	2 ID					Chang	ed Param. 2	2?
Old Value 1			35			New Va	alue 1			35 Kts.			Cł	nange	d Value1?	N
Old Value 2						New Va	alue 2						Cř	nange	d Value 2?	
Old Operato	r 1	>= N	ew Opt. 1	>=	Change	d Opt. 1	? N	Old	Opt. 2	N <sub>0</sub>	ew Opt	:. 2		Chan	ged Opt. 2?	
Old Conden	sed		Surface V	Vind		New C	Condens	ed		Surface	Wind		Ch Im	nange	d Condense	d N
Old Full Impa	act	Surface	wind speed >	= 35 kts	reduces	the effe	ectivene	ess of	the an	tenna due	o redu	uced st	ability.			
New Full Imp	act	Surface	wind speed >	= 35 kts	reduces	the effe	ectivene	ess of	the an	tenna due	to redu	iced st				
Old Source	(1st	Cavalry	Division, 19	92);									Chang	ed Fu	Il Impact?	N
New Source/ Reason for Delete	FM	34-81-1,	Appendix D-	5, Dec 19	992											
Comments										-						
Changed Sou	urce?	Y			Are The	re Any (	(2) Optio	ns?	N			Δ	ny Cha	inge to	Record?	Y

			IWEDA	Systen	Rui	es					
ID # 205 Syste	em Name	TF	PQ-36			Rule 1 #	70	Rule 2#		Delete Rule?	? <b>Y</b>
Old Color 2	New Color						C	hanged C	olor?		
Parameter 1 #	21 Old Param. 1 ID	surfacewind	ispeed N	ew Param.	1 ID				Chan	ged Param. 1	1?
Parameter 2 #	Old Param. 2 ID		N	ew Param.	2 ID				Chan	ged Param. 2	2?
Old Value 1	80		New Value	e 1					Chang	ed Value1?	
Old Value 2			New Value	e 2					Chang	ed Value 2?	
Old Operator 1	>= New Opt. 1	Char	nged Opt. 1?	Old	Opt. 2	N	ew Opt.	2	Cha	nged Opt. 2?	Ħ
Old Condensed Impact	Surface	Wind	New Con	densed					Change Impact	ed Condense ?	d
Old Full Impact	Surface wind speed	>= 80 kts excee	eds the opera	itional limi	ts and	causes the	antenr	a to be s	towed.		
New Full Impact											
Old Source (1	st Cavalry Division, 1	992):						Ch	anged F	ull Impact?	
ينا المالية	elete Rule: Covered b										
Comments											
Changed Source	Y	Are 1	There Any (2)	Options?	N			Any	Change	to Record?	Y
ID # 206 Syste	em Name	TF	PQ-36			Rule 1#	141	Rule 2#	141	Delete Rule?	N
Old Color 1	New Color 1					•	c	hanged C	olor?	N	
Parameter 1 #	26 Old Param. 1 ID	visibili	ty N	ew Param.	1 ID	٧	isibility		Chan	ged Param. 1	? N
Parameter 2 #	1 Old Param. 2 ID	blowings	and N	ew Param.	2 ID	Blov	ving Sa	nd	Chan	ged Param. 2	? N
Old Value 1	800		New Value	e 1	- 8	00 meters			Chang	ed Value1?	N
Old Value 2	1		New Value	e 2 Yes					Chang	ed Value 2?	Y
Old Operator 1	< New Opt. 1	< Char	nged Opt. 1?	N Old	Opt. 2	= N	ew Opt.	2 =	Cha	nged Opt. 2?	N
Old Condensed Impact	Sands	torm	New Con Impact	densed		Sands	torm		Chang Impact	ed Condense ?	d N
Old Full Impact	Any occurrence of	olowing sand ar	nd visibility <	0.5 mile (8	300 m)	degrades t	he syst	ems abilit	y to loc	ate targets.	
New Full Impact	Any occurrence of	olowing sand ar	nd visibility <	0.5 mile (8	300 m)	degrades t	he syst	ems abilit	y to loc	ate targets.	
OU 0								Ch	anged F	ull Impact?	N
<u></u>	Ist Cavalry Division, 1 M 34-81-1, Appendix										
Comments											
Changed Source	? Y	Are <sup>-</sup>	There Any (2)	Options?	Y	7		Any	Change	to Record?	Y

vermeation and van		WEDA Rules			51C Technical Report 5157
		IWEDA Sy	stem Rul	es	
ID# 207 System Name		TPQ-36		Rule 1 # 142 R	tule 2 # 142 Delete Rule? N
Old Color 1 New	Color 1			Ch	anged Color? N
Parameter 1 # 26 Old	l Param. 1 ID v	isibility New	Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 # 2 Old	Param. 2 ID blow	wingsnow New	Param. 2 ID	Blowing Snov	V Changed Param. 2? N
Old Value 1	800	New Value 1		300 meters	Changed Value1? N
Old Value 2	1	New Value 2	Yes		Changed Value 2? Y
Old Operator 1 <	New Opt. 1 <	Changed Opt. 1? N	Old Opt. 2	= New Opt. 2	= Changed Opt. 2? N
Old Condensed Impact	Snowstorm	New Conden Impact	sed	Snowstorm	Changed Condensed N Impact?
Old Full Impact Any oc	currence of blowing si	now and visibility < 0.5	mile (800 m)	degrades the syster	ns ability to locate targets.
New Full Impact Any oc	currence of blowing si	now and visibility < 0.5	mile (800 m)	degrades the system	ns ability to locate targets.
<u> </u>					Changed Full Impact? N
Old Source (1st Caval	ry Division, 1992);				
New Source/ Reason for Delete	1, Appendix E-7, Dec 1	992	. **		
Comments					
				<u> </u>	
Changed Source? Y		Are There Any (2) Opt	ons? Y	J	Any Change to Record?
ID # 208 System Name		TPQ-37		اسمم	ule 2 # Delete Rule? N
	Color 2				anged Color? Y
Parameter 1 # 21 Old	Param. 1 ID surfac		Param. 1 ID	Surface Wind Sp	
Parameter 2 # Old	Param. 2 ID	New I	Param. 2 ID		Changed Param. 2?
Old Value 1	35	New Value 1		35 kts	Changed Value1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1 >=	New Opt. 1 >=	Changed Opt. 1? N	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Surface Wind	New Condens	sed	Surface Wind	Changed Condensed Nimpact?
Old Full Impact Surface	e wind speed >= 35 kts	reduces the effectiver	ess of the ar	tenna due to reduce	d stability.
New Full Impact Surface	wind speed >= 35 kts	causes antenna to be	stowed.		
Ton Tuninpuot	, mila opoda z oo kee				
Old Source	n Division 4000).		- 1		Changed Full Impact?
<u> </u>	ry Division, 1992);	lui 4094			
New Source/ Reason for	)-355-10-1, Page 2-317,	Jul 1901		•	

Y

Comments

Changed Source?

Are There Any (2) Options?

N

Any Change to Record?

ID# 209 Sy	ystem Name	е	TPQ	-37	·	Rule 1	# 71 Ru	le 2 #	Delete Rule
Old Color	2 Nev	w Color 2					Chai	nged Color?	N
Parameter 1 #	21 0	d Param. 1 ID	surfacewindsp	eed New	Param. 1	ID Sui	rface Wind Gu	st Ch	anged Param.
Parameter 2 #	01	d Param. 2 ID		New	Param. 2	ID		Ch	anged Param.
Old Value 1		50		New Value 1		65 kts		Cha	nged Value1?
Old Value 2				New Value 2	:			Cha	nged Value 2?
Old Operator	1 >=	New Opt. 1	>= Change	ed Opt. 1?	N Old Op	ot. 2	New Opt. 2	С	hanged Opt. 23
Old Condense Impact	∍d	Surface W	ind	New Conde	nsed	Surfac	e Wind Gust	Chaimpa	nged Condense
Old Full Impac	t Surfac	e wind speed >=	50 kts exceeds	s operational	limits and	causes the	antenna to be	stowed.	
New Full Impac	ct Surfac	ce wind gusts >=	65 kts. causes	antenna to b	e stowed.				
Old Causas	(4-4-0	I Division 400	2).					Changed	f Full Impact?
Old Source	<u> </u>	Iry Division, 199							
New Source/ Reason for Delete	TM11-584	l0-355-10-1, Page	2-317, Jul 1981	1					
Comments									
ID # 210 Sy	ystem Name		TPQ	-37		Rule 1	·	le 2 # <b>141</b>	Delete Ruie
Old Color		w Color					Chai	nged Color?	
Parameter 1 #		ld Param. 1 ID	visibility		Param. 1				anged Param.
Parameter 2 #	1 0	ld Param. 2 ID	blowingsan	.d New	/ Param. 2	ID			_
Old Value 1		800	1	··		<u> </u>			anged Param.
Old Value 2				New Value 1				Cha	nanged Param. nged Value1?
		1		New Value 2				Cha Cha	nanged Param. nged Value1? nged Value 2?
Old Operator	1 <	1 New Opt. 1	Change	New Value 2	Old Op	ot. 2 =	New Opt. 2	Cha Cha	nanged Param. nged Value1? nged Value 2? hanged Opt. 23
				New Value 2	Old Op	ot. 2 =	New Opt. 2	Cha Cha	nanged Param. nged Value1? nged Value 2? hanged Opt. 23 nged Condense
Old Operator	ed	New Opt. 1	m	New Value 2 ed Opt. 1? [ New Conde Impact	Old Opensed			Cha Cha Cha Cha Impa	nanged Param. nged Value1? nged Value 2? hanged Opt. 2? nged Condense
Old Operator Old Condense Impact	ed Any o	New Opt. 1 Sandstor	m	New Value 2 ed Opt. 1? [ New Conde Impact	Old Opensed			Cha Cha Cha Cha Impa	nanged Param. nged Value1? nged Value 2? hanged Opt. 2? nged Condens act?
Old Operator Old Condense Impact Old Full Impact New Full Impac	ed Any o	New Opt. 1 Sandstor	m wing sand and	New Value 2 ed Opt. 1? [ New Conde Impact	Old Opensed			Cha Cha Cha Cha Impa	nanged Param. nged Value1? nged Value 2? hanged Opt. 2? nged Condense
Old Operator Old Condense Impact Old Full Impac	ed Any or	New Opt. 1 Sandstor	wing sand and	New Value 2 ed Opt. 1? [ New Conde Impact visibility < 0.	Old Opensed 5 mile (800	) m) degrad	es the system	Cha Cha Cha Impa s ability to le	nanged Param. nged Value1? nged Value 2? hanged Opt. 2? nged Condense act? ocate targets.
Old Operator Old Condense Impact Old Full Impact New Full Impact Old Source New Source/ Reason for	ed Any or	New Opt. 1  Sandstor  ccurrence of blood	wing sand and	New Value 2 ed Opt. 1? [ New Conde Impact visibility < 0.	Old Opensed 5 mile (800	) m) degrad	es the system	Cha Cha Cha Impa s ability to le	nanged Param. nged Value1? nged Value 2? hanged Opt. 2? nged Condense act? ocate targets.

# **IWEDA System Rules** TPQ-37 ID # 211 System Name Rule 1 # 142 Rule 2 # 142 Delete Rule? **Changed Color?** Old Color New Color visibility Parameter 1 # 26 Old Param. 1 ID New Param. 1 ID Changed Param. 1? Old Param. 2 ID blowingsnow New Param. 2 ID Changed Param. 2? Parameter 2 # 800 New Value 1 Changed Value 1? Old Value 1 1 New Value 2 Changed Value 2? Old Value 2 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 Old Condensed Snowstorm New Condensed Changed Condensed Impact Impact? Impact Any occurrence of blowing snow and visibility < 0.5 mile (800 m) degrades the systems ability to locate targets. Old Full Impact New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: TM11-5840-355-10-1, Jul 1981, Operator's Manual makes no mention of this impact in unusual conditions New Source/ Reason for Delete Comments Υ Υ Changed Source? Y Are There Any (2) Options? Any Change to Record? TRQ-32V 21 Rule 2# Delete Rule? ID# 212 System Name Rule 1# Changed Color? Old Color **New Color** New Param. 1 ID Changed Param. 1? Parameter 1 # 22 Old Param. 1 ID temperature New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID Changed Value1? Old Value 1 125 New Value 1 Changed Value 2? Old Value 2 New Value 2 Changed Opt. 2? Changed Opt. 1? Old Opt. 2 New Opt. 2 Old Operator 1 New Opt. 1 Hot **New Condensed** Changed Condensed Old Condensed Impact? Impact Impact Temperatures >= 125 F exceed system specifications. Old Full Impact New Full Impact Changed Full Impact? (1st Cavalry Division, 1992); Old Source Delete Rule: No reference or record of system in DA PAM 25-30 ,Army Index of Publications and Forms, 1 Oct 1997 New Source/ Reason for Delete Comments Υ

Y

Changed Source?

Are There Any (2) Options?

N

Any Change to Record?

			IWEDA Sy	stem Ru	iles				
ID # 213 Syst	em Name	TRQ	-32V		Rule 1#	<b>24</b> Ru	le 2 #	Delete Rule	? <b>Y</b>
Old Color 1	New Color					Chai	nged Color?		
Parameter 1 #	22 Old Param. 1 ID	temperatui	ne New I	Param. 1 ID[			Cha	anged Param.	1?
Parameter 2 #	Old Param. 2 ID		New I	Param. 2 ID			Cha	anged Param. 2	2?
Old Value 1	100		New Value 1				Chan	ged Value1?	
Old Value 2			New Value 2				Chan	ged Value 2?	
Old Operator 1	>= New Opt. 1	Change	ed Opt. 1?	Old Opt. 2	2 N	lew Opt. 2	Ch	anged Opt. 2?	
Old Condensed Impact	Но	t	New Condent Impact	sed			Chan Impa	ged Condense ct?	d
Old Full Impact	Temperatures >= 10 on generator.	0 F preclude sust	ained operatio	ns for more	than 3 hou	s continuo	usly becuase	of power tak	e-off
New Full Impact									
Old Source	1st Cavalry Division, 1	002)-			٦		Changed	Full Impact?	
New Source/ Reason for Delete	Delete Rule: No referen		ystem in DA P	AM 25-30, A	 .rmy Index o	f Publication	ons and Forn	ıs, 1 Oct 1997	
Comments									
Changed Source	? Y	Are Th	ere Any (2) Opti	ions?	N		Any Chang	e to Record?	Y
ID # 214 Syst	em Name	TRQ	-32V		Rule 1#	90 Ru	le 2 #	Delete Rule	? Y
Old Color 2	New Color				_	Cha	nged Color?		
Parameter 1 #	15 Old Param. 1 ID	relativehumi	dity New	Param. 1 ID			Cha	anged Param.	1?
Parameter 2 #	Old Param. 2 ID		New	Param. 2 ID			Cha	anged Param. 2	2?
Old Value 1	95		New Value 1				Chan	ged Value1?	
Old Value 2			New Value 2				Chan	ged Value 2?	
Old Operator 1	> New Opt. 1	Chang	ed Opt. 1?	Old Opt. 2	2 N	lew Opt. 2	Ch	anged Opt. 2?	
Old Condensed Impact	Relative H		New Conden Impact				Chan Impa	ged Condense ct?	d
Old Full Impact	Humidity > 96% gre	atly decrease sys	tem effectiven	ess.					
New Full Impact									
Old Source	1st Cavalry Division, 1	992).					Changed	Full Impact?	
	Delete Rule: No refere		system in DA P	AM 25-30, A	_ ∆rmy Index o	of Publication	ons and Forn	ns, 1 Oct 1997	,
Comments									
Changed Source	·? Y	Are Th	ere Any (2) Opt	ions?	N	<del>-</del>	Any Chang	e to Record?	Y

#### **IWEDA System Rules** TSQ-138 ID# 215 System Name Rule 1# Rule 2# Delete Rule? Old Color 2 **New Color** Changed Color? Y Changed Param. 1? Parameter 1 # 22 Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID New Value 1 - 50 F Changed Value1? Old Value 1 -25 Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Old Operator 1 New Opt. 1 New Opt. 2 Changed Opt. 2? **New Condensed Extreme Cold** Old Condensed Cold Changed Condensed Impact Impact Impact? Old Full Impact Temperatures <= -25 F exceed the operational limits. Temperatures <= -50F exceed design limits New Full Impact Υ Changed Full Impact? Old Source (1st Cavalry Division, 1992); Trailblazer Operator Guide, MVP Corporation, Mar 1993, refers to TM5-4120-370-14, Para 2-17, Mar 1983 New Source/ Reason for Delete Comments Υ Changed Source? Y Are There Any (2) Options? N Any Change to Record? Delete Rule? N ID # 216 System Name **TSQ-138** Rule 1# 17 Rule 2# Υ Old Color 2 **New Color** Changed Color? Changed Param. 1? N Parameter 1 # 22 Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID 125 F Old Value 1 120 New Value 1 Changed Value1? New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Old Condensed Hot **New Condensed Extreme Heat** Changed Condensed Impact Impact? Impact Old Full Impact Temperatures >= 120 F exceed the operational limits. Temperatures >= 125F exceed design limits New Full Impact Y Changed Full Impact? (1st Cavalry Division, 1992); Old Source Trailblazer Operator Guide, MVP Corporation Mar 1993 refers to TM 5-4120-370-14, Para 2-16, Mar 1983 New Source/ Reason for Delete Comments

Υ

Changed Source?

Are There Any (2) Options?

N

Any Change to Record?

					IWED	A Sy	stem	Rui	es				
ID # 217 Syste	m Name			TSQ-	138				Rule 1 # 25	Rule 2#		Delete Rule	? N
Old Color 1	New	Color 1								Changed (	Color?	N	
Parameter 1 #	6 Old	Param. 1 ID	de	ewpoint		New P	aram. 1		Dew Poi	nt	Cha	nged Param.	1? N
Parameter 2 #	Old	Param. 2 ID				New P	Param. 2	ID[			Cha	nged Param. 2	2?
Old Value 1		65			New Va	aiue 1			85 F		Chang	ged Value1?	Y
Old Value 2					New Va	alue 2					Chang	ged Value 2?	
Old Operator 1	>= N	lew Opt. 1	>	Change	ed Opt. 1	? Y	Old O	pt. 2	New Op	t. 2	Cha	anged Opt. 2?	
Old Condensed Impact	I	Dewpoint T	emperatur	e	New C	ondens t	ed [	C	Dewpoint Temper	ature	Chang Impac	ged Condense t?	N b
Old Full Impact	Dewpoir	nt temperat	ures >= 65	F degra	de perfo	rmanc	e.						
New Full Impact	Dewpoir	nt temperat	ures > 85 F	may de	grade p	erform	ance du	e to	increased mainte	enance	,		
									1	CI	nanged I	Full Impact?	Y
<u></u>		/ Division, <sup>/</sup> Operator G		Corpora	ition, Ma	ar 1993,	, refers	to TN	VI 5-4120-370-14, I	Para 2-19,	Mar 198	3	
Comments													
Changed Source?	Y			Are The	ere Any (	(2) Optio	ons?	N		Any	Change	e to Record?	Y
ID # 218 Syste	m Name			TSQ-	138				Rule 1 # 26	Rule 2#		Delete Rule	? Y
Old Color 2	New	Color							· ·	Changed (	Color?		
Parameter 1 #	6 Old	Param. 1 ID	de	ewpoint		New P	aram. 1	ID		·, · · · · · · · · · · · · · · · · · ·	Cha	nged Param.	1?
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID			Cha	nged Param. 2	2? 🗍
Old Value 1		85			New Va	alue 1					Chang	ged Value1?	Ī
Old Value 2					New Va	alue 2					Chang	ged Value 2?	
Old Operator 1	>= 1	lew Opt. 1		Change	ed Opt. 1	?	ОМО	pt. 2	New Op	ot. 2	Cha	anged Opt. 2?	
Old Condensed Impact		Dewpoint T	emperatur	е	New C	ondens t	sed				Chang	ged Condense ct?	:d
Old Full Impact	Dewpoi	nt temperat	ures >= 85	F greatl	y degra	de perf	ormanc	e an	d exceed operatir	ng limits.			
New Full Impact										0		F. II I a at 2	
Old Source (1	st Cavair	y Division,	1992);							C	nanged	Full Impact?	
New Source/ Reason for Delete	elete Rule	e: Conbined	l in Rule IC	# 217									
Comments													
Changed Source?	Y			Are The	ere Any	(2) Option	ons?	N	<u> </u>	Any	Change	e to Record?	Y

					WED	A Sy	stem R	Rule	es						
ID # 219 Syste	em Name			UAV	!				Rule 1#	16	Rule	2#		Delete Rule?	? N
Old Color 2	New	Color 2									Change	ed Colo	or?	N	
Parameter 1 #	22 Old	Param. 1 ID	ten	perature		New P	aram. 1 il	D[	Ter	nperat	ure		Char	nged Param. 1	1? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2 II	D					Char	nged Param. 2	2?
Old Value 1		5			New Val	ue 1			- 25 F			C	Chang	ed Value1?	Y
Old Value 2					New Val	ue 2						c	Chang	ed Value 2?	
Old Operator 1	<= N	lew Opt. 1	<=	Changed	i Opt. 1?	N	Old Opt	t. 2	N	lew Opt	t. 2		Cha	nged Opt. 2?	
Old Condensed Impact		Cold	1		New Co Impact	ndens	ed		Extrem	e Cold		1	Chang mpact	ed Condense t?	d Y
Old Full Impact	Tempera	atures < 5 F e	xceed th	e operation	onal lim	its of t	he syste	m.		· · · · · · · · · · · · · · · · · · ·					
New Full Impact	Tempera	atures <= - 25	F excee	d the non	mal ope	rating	envirom	ent.							
Old Source (1	st Cavain	Division, 19	92):	-								Chan	ged F	full Impact?	Y
		692-10, Page		r 97											
Comments								-							
Changed Source?	Υ			Are Ther	e Any (2	) Optio	ns?	N			, , , ,	Any Ch	nange	to Record?	Y
ID # 220 Syste	em Name			UAV	,				Rule 1#	24	Rule	2#		Delete Rule?	N
Old Color 2	New	Color 2								(	Change	ed Colo	or?	N	
Parameter 1 #	22 Old	Param. 1 ID	tem	perature	] ]	New Pa	aram. 1 II	D	Ter	nperati	ure		Chan	nged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID			] [	New Pa	aram. 2 il	D					Chan	nged Param. 2	2?
Old Value 1		100		l	New Valu	ue 1			120 F			C	hang	ed Value1?	Y
Old Value 2				·	New Valu	ue 2						C	hang	ed Value 2?	
Old Operator 1	>=   N	lew Opt. 1	>=	Changed	Opt. 1?	N	Old Opt	. 2	N	ew Opt	t. 2		Cha	nged Opt. 2?	
Old Condensed Impact		Hot			New Co Impact	ndense	ed		Very	Hot			hang npact	ed Condense	d Y
Old Full Impact	Tempera	atures > 100	exceed	the opera	ational li	mits o	f the sys	tem	l.						
New Full Impact	Tempera	atures > 120	exceed	the norm	al opera	ition e	nvironme	ent							
Old Source (1	st Cavaln	/ Division, 19	92);		<del></del>							Chan	ged F	full Impact?	Y
<u></u>		692-10, Page		r 1997											
Comments												•			
Changed Source?	Y			Are Ther	e Any (2	) Optio	ns?	N				Any Ch	ange	to Record?	Y

		IWED	A System	Rules	-	
ID # 221 Syst	tem Name	UAV		Rule 1 # 3	34 Rule 2 #	Delete Rule? N
Old Color 2	New Color 2				Changed Col	or? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1	ID Visi	bility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID		Changed Param. 2?
Old Value 1	1600	New Va	ilue 1	1600 meters		Changed Value1? N
Old Value 2		New Va	ilue 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1	? N Old O	ot. 2 New	Opt. 2	Changed Opt. 2?
Old Condensed Impact	Reduced Visibility	New C	ondensed	Low Visib		Changed Condensed Y
Old Full Impact	Visibility <= 1.0 mile (1600 m	) makes the ident	ification and/o	r recognition of ta	rgets very diffic	ult.
New Full Impact	Visibility <= 1.0 mile (1600 m	n) is below all vis	ual flight rules	for the operation (	of the Hunter UA	V.
_					Chai	nged Full Impact?
<u></u>	1st Cavalry Division, 1992);					
	Jnmanned Aerial Vehicle Short Also may be in TM 9-5895-692-0		Standard Ope	ating Procuedure	s (SOP), page C	-57, date unknown.
Comments			···			
	• [7]	A . The same A	0.0-110			1
Changed Source	? Y	Are There Any (	2) Options?	N	Any C	hange to Record?
ID # 222 Syst	tem Name	UAV		Rule 1 #	Rule 2#	Delete Rule? Y
Parameter 1 #		visibility	New Param. 1	מו	Onunged Co	Changed Param. 1?
Parameter 2 #	Old Param. 2 ID	Visibility	New Param. 2			Changed Param. 2?
Old Value 1	3200	New Va				Changed Value1?
Old Value 1	<b>5200</b>	New Va	<u></u>			Changed Value 2?
Old Value 2 Old Operator 1	<= New Opt. 1	Changed Opt. 1		nt 2 New	Opt. 2	Changed Opt. 2?
Old Condensed			ondensed			Changed Condensed
Impact		Impact				Impact?
Old Full Impact	Visibility <= 2.0 miles (3200 i	n) makes the ide	ntification and/	or recognition of t	argets difficult.	
New Full Impact						
-				····	Cha	nged Full Impact?
<u></u>	1st Cavalry Division, 1992);					
New Source/ Reason for Delete	Delete Rule: Old rule for pointe	r UAV				
Comments					, , , , , , , , , , , , , , , , , , , ,	
Changed Source	9? Y	Are There Any	(2) Options?	N	Any C	hange to Record?

				IWE	DA Sy	stem R	ules						
ID # 223 System	m Name			UAV			Rule 1	# 52	Rule	2#	Dele	te Rule?	Y
Old Color 2	New	Color						L	 Chang	ed Colo	r?		
Parameter 1 #	Old i	Param. 1 ID	r	ain	New F	Param. 1 ID					Changed F	Param. 1	?
Parameter 2 #	Old I	Param. 2 ID			New F	Param. 2 ID		- 1			Changed F	Param. 2	.? 🗀
Old Value 1		1		New V	alue 1					C	hanged Va	lue1?	
Old Value 2				New V	alue 2					С	hanged Va	lue 2?	M
Old Operator 1	> N	ew Opt. 1		Changed Opt.	1?	Old Opt.	2	New O	pt. 2		Changed	Opt. 2?	$\overline{\Box}$
Old Condensed Impact		Precipit	ation	New 0	Condens	sed					hanged Co npact?	ndensed	t
Old Full Impact	Rain > li	ght intensity	makes tar	get identificat	tion and	l/or recogn	ition very	difficult	and exc	eeds s	ystem spe	ecificato	ns.
New Full Impact													
Old Source (1s	t Cavalry	Division, 1	992);							Chang	jed Full Im	pact?	
		: Delete and on UAV.	l replace wi	th link to con	nponent	rules for	TV/Direct v	/iew sigl	ht and th	nermal	sight sinc	e there a	are
Comments				- 2 200	•								
Changed Source?	Y		A	re There Any	(2) Option	ons?	N		,	Any Cha	ange to Re	cord?	Y
ID# 224 System	n Name	[		UAV			Rule 1	# 53	Rule	2#	Delet	te Rule?	Y
Old Color 1	New (	Color C						"		ed Colo			لتا
L		Param. 1 ID		ain	New F	aram. 1 ID			0.10.19		· L Changed P	Param 1	2
Parameter 2 #		aram. 1 ID ☐			_	aram. 2 ID					Changed P		
Old Value 1		0		New V							nanged Va		· H
Old Value 2				New V							nanged Va		H
Old Operator 1	> N	ew Opt. 1	$\equiv$	hanged Opt.		Old Ont	2	New O	nt 2		Changed (		
Old Condensed Impact		Precipit			Condens			<u> </u>	F [	Ci	nanged Co		' _
	Any occi	urrence of ra	in makes t	arget identific		nd/or reco	gnition dif	ficult.					
<b>N</b>													
New Full Impact													
Old Source (1s	t Cavalry	Division, 19	992);							Chang	ed Full Imp	pact?	
		Delete and on UAV.	l replace wi	th link to com	ponent	rules for 1	 ΓV/Direct \	view sigl	ht and th	nermal s	sight since	e there a	are
Comments								******					
Changed Source?	Y		. Д	re There Any	(2) Optio	ons?	N			Any Cha	ange to Re	cord?	Υ

IWEDA System Rules													
ID # 225 System	m Name		UAV			Rule 1#	56 R	ule 2 #	Delete Rule	? N			
Old Color 2	New Color 2						Ch	anged Colo	or? N				
Parameter 1 #	10 Old Param. 1 ID	freezir	ngrain	New Parar	n. 1 ID		lcing		Changed Param. 1	1? <b>Y</b>			
Parameter 2 #	Old Param. 2 ID			New Parar	n. 2 ID				Changed Param. 2	2?			
Old Value 1	0		New Val	lue 1		None		] c	hanged Value1?	Y			
Old Value 2			New Val	lue 2				] c	hanged Value 2?				
Old Operator 1	> New Opt. 1	> Ci	nanged Opt. 13	? N O	d Opt. 2	N	lew Opt. 2		Changed Opt. 2?				
Old Condensed Impact	Freezin	g Rain	New Co Impact	ondensed		lcing	Aloft		hanged Condense hpact?	d Y			
Old Full Impact	Any occurrence of	freezing rain o	coats the cam	era lens a	nd make	es target ac	quisition	very diffict	ılt.				
New Full Impact	Changed Full Impact? Y												
Old Source (1s	et Cavalny Division	1002).				1		Chan	ged Full Impact?	Y			
	1 9-5896-692-10, Pag		997			<u> </u>							
Comments													
Changed Source?	Y	Ar	re There Any (2	2) Options?	· [N			Any Ch	ange to Record?	Y			
1D # 000 0			UAV			] Dule 4.#		la 2 # [	Delete Rule	· Y			
ID # 226 Syste	m Name New Color		UAV			Rule 1#		tule 2 # anged Cold		• 🕒			
	17 Old Param. 1 ID	sn	OW	New Para	m 1 ID			anged cole	″ ·	12			
	Old Param. 2 ID			New Para	<u>_</u>				Changed Param. 2				
Parameter 2 # Old Value 1	1		New Va		11. 2 10				changed Value1?				
			New Va	<u></u>				_	Changed Value 2?				
Old Value 2 Old Operator 1	> New Opt. 1		hanged Opt. 1		ld Opt. 2		New Opt. 2		Changed Opt. 2?				
Old Condensed		ow	New Co	ondensed	id Opt. 2			1	hanged Condense				
Impact			Impact						mpact?				
Old Full Impact	Snow > light intens specifications.	ity makes tar	get identificat	ion and/or	recogn	ition very d	lifficult an	d exceeds	system				
New Full Impact								Aven					
								Chan	ged Full Impact?				
Old Source (1:	st Cavalry Division,	1992);				]							
	elete Rule: Delete ar ibsystems on UAV.	nd replace wit	h link to com	ponent rul	es for T	V/Direct vie	w sight ar	nd thermal	sight since there	are			
Comments			-										
Changed Source?	Y	A	re There Any (	2) Options	? [[	N		Any Ch	nange to Record?	Y			

## **IWEDA System Rules** ID# 227 System Name UAV Rule 1# Rule 2# Delete Rule? Old Color **New Color** Changed Color? Parameter 1 # 17 Old Param. 1 ID snow New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? New Value 1 Old Value 1 0 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? New Condensed Old Condensed Snow Changed Condensed Impact Impact Impact? Old Full Impact Any occurrence of snowfall makes target identification and/or recognition difficult. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); Delete Rule: Delete and replace with link to component rules for TV/Direct view sight and thermal sight since there are New Source/ Reason for subsystems on UAV. Delete Comments Changed Source? Y Are There Any (2) Options? N Any Change to Record? Υ ID# 228 System Name UAV Rule 1 # 64 Rule 2# Delete Rule? Old Color **New Color** Changed Color? New Param. 1 ID Changed Param. 1? Parameter 1 # 21 Old Param. 1 ID surfacewindspeed Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # New Value 1 Old Value 1 15 Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? New Opt. 1 **New Condensed** Old Condensed Surface Wind Changed Condensed Impact Impact Old Full Impact Surface wind speed > 15 kts makes takeoff and landing of the UAV very difficult if wind direction is across the runway. New Full Impact Changed Full Impact? (Joint METOC Training Handbook, 1996); Old Source New Source/ Delete Rule: Redundant. See rule ID# 231 Reason for Delete Comments

Y

Changed Source?

N

Are There Any (2) Options?

Any Change to Record?

					IWEI	DA Sy	stem Ru	ules					
ID# 229	Syste	em Name			UAV	-		Rule 1#	66	Rule 2#		Delete Rule?	? N
Old Color	2	New	Color 2							hanged C	olor?	N	
Parameter	1#	21 Old	Param. 1 ID	surface	windspeed	New P	aram. 1 ID	Surfac	e Wind \$	Speed	Chan	ged Param. 1	? N
Parameter :	2#	Old	Param. 2 ID			New P	aram. 2 ID				Chan	ged Param. 2	2?
Old Value	1		25		New V	/alue 1		25 kts.			_ Change	ed Value1?	N
Old Value	2				New V	/aiue 2					Change	ed Value 2?	
Old Opera	tor 1	>= 1	New Opt. 1	>=	Changed Opt.	1? N	Old Opt.	2 1	lew Opt.	2	Char	nged Opt. 2?	
Old Conde Impact	ensed		Surface	Wind	New Impa	Condens	ed	Surfac	e Wind		Change Impact	ed Condense ?	d N
Old Full Imp	pact		wind speed system spe		makes control	ling the	UAV very	difficult, red	uces the	ground s	peed of	the system,	and
New Full Im	npact	Maximu	m head wind	i compone	ent must not be	e >= 25 k	ts.						
Old Source	(1	ist Cavair	y Division, 1	992);						Ch	anged Fi	ull Impact?	Y
New Source Reason for Delete	e/ T		692-10, Page		r 1997								
Comments	Ī												
Changed S	ource'	? Y			Are There Any	(2) Optio	ons? [	N		Any	Change	to Record?	Y
ID# 230	Syst	em Name			UAV			Ruie 1#	67	Rule 2#		Delete Rule?	? <b>Y</b>
Old Color	1	New	Color						C	hanged C	olor?		
Parameter	1#	21 Old	Param. 1 ID	surface	ewindspeed	New P	aram. 1 ID				Chan	ged Param. 1	1?
Parameter	2#	Old	Param. 2 ID			New P	aram. 2 ID				Chan	ged Param. 2	2? 🔲
Old Value	1		20		New \	/alue 1					Change	ed Value1?	
Old Value	2				New \	/alue 2					Change	ed Value 2?	
Old Opera	tor 1	>= I	New Opt. 1		Changed Opt.	1?	Old Opt.	21	New Opt.	2	Char	nged Opt. 2?	
Old Conde Impact	ensed		Surface	Wind	New Impa	Condens ct	ed				Change Impact	ed Condense ?	d
Old Full Im	pact	Surface	wind speed	>= 20 kts	makes control	ling the	UAV diffic	ult and redu	ces the	ground sp	eed of t	he system.	
New Full In	npact												
	_							-		Ch	anged F	ull Impact?	
Old Source			y Division, 1										
New Source Reason for Delete		Delete Rul	e: This appl	ies to "Pri	nter" UVA not	"Hunter"							
Comments													
Changed S	L Source	? Y			Are There Any	(2) Optio	ons?	N		Any	Change	to Record?	Υ

				14451	DA SY	stem Ki	uies				
ID # 231 Sy	stem Na	ame		UAV			Rule 1#	<b>72</b> Ru	le 2 #	Delete Rule	? N
Old Color	1	New Color 1						Chai	nged Color	? N	
Parameter 1 #	21	Old Param. 1 ID	surfac	ewindspeed	New F	aram. 1 ID	Surface	Wind Spe	ed C	Changed Param.	1? N
Parameter 2 #		Old Param. 2 ID			New P	aram. 2 ID			C	Changed Param.	2?
Old Value 1		10		New V	/alue 1		15 kts.		Ch	anged Value1?	Y
Old Value 2				New V	alue 2				Ch	anged Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Changed Opt.	1? N	Old Opt.	2 N	ew Opt. 2		Changed Opt. 27	?
Old Condensed Impact	d	Surface	Wind	New (	Condens ct	ed	Surface	Wind		anged Condense pact?	ed N
Old Full Impact	Sur	face wind speed	>= 10 kts	makes takeoff	and land	ding of the	UAV difficul	t if wind di	rection is a	icross the runw	ay.
New Full Impac	t Cro	sswind compone	ent >= 15	kts exceeds the	normal	operating	environment	E			
Old Source	(Joint I	METOC Training	Handboo	k 1996):					Change	ed Full Impact?	Y
		895-692-10, Page									
Comments											
Changed Sourc	e? [	Y		Are There Any	(2) Optic	ons?	N		Any Chai	nge to Record?	Y
	stem Na	L		UAV			Rule 1 #		e 2 #	Delete Rule	? N
L		New Color 2			¬				iged Color?		40 🔃
Parameter 1 #		Old Param. 1 ID	turbule	enceintensity		aram. 1 ID		ncei Intens		hanged Param.	
Parameter 2 #	<u> </u>	Old Param. 2 ID		1		aram. 2 ID				hanged Param.	
Old Value 1		1		New V			Severe			anged Value1?	Y
Old Value 2		N 0-4 4		New V		014 0-4	2 [ ] N	O-t 2		anged Value 2?	, 📙
Old Operator 1		New Opt. 1	>=	Changed Opt.		Old Opt.		ew Opt. 2		Changed Opt. 2?	
Old Condensed Impact		Turbulend	e Alon	impac	Condens t	eu	Severe Turbu	lience Aloi		anged Condense pact?	ed Y
Old Full Impact	Turt	oulence > light e	ceeds th	e operational li	mits of t	he system	and makes o	ontrolling	the UAV v	ery difficult.	
New Full Impact	t Flig	ht into turbulenc	e >= seve	ere is prohibited	l if flying	j between	(~turbulence	base) & (~	turbulence	tops) feet AGL	••
Old Source	(1st Ca	valry Division, 1	992);						Change	ed Full Impact?	Υ
New Source/ Reason for Delete	TM 9-58	895-692-10, Page	1-28, Ma	г 1997							
Comments											
Changed Source	e? [	Y		Are There Any	(2) Optio	ns?	N		Any Char	nge to Record?	Y

			IWE	DA Sy	stem Ri	lles				
ID # 233 Sy	stem Name		UAV			Rule 1 #	81 R	ule 2 #	Delete Rule	? N
Old Color	1 New Color	1					Cha	inged Colo	r? N	
Parameter 1 #	24 Old Param. 1 II	turbul	enceintensity	New P	aram. 1 ID	Turbul	ence Inten	sity	Changed Param.	1? N
Parameter 2 #	Old Param. 2 II	)		New P	aram. 2 ID				Changed Param. 2	2?
Old Value 1	0		New \	/alue 1		None		С	hanged Value1?	Y
Old Value 2			New \	/alue 2				С	hanged Value 2?	
Old Operator 1	1 > New Opt. 1	>	Changed Opt.	1? N	Old Opt.	2 N	New Opt. 2		Changed Opt. 2?	
Old Condense Impact	d Turbule	nce Aloft	New Impa	Condens ct	ed	Turbule	nce Aloft	C	hanged Condense	d N
Old Full Impact	Any occurrence of	turbulence	e makes contro	lling the	UAV diffic	ult.				
New Full Impac	Any occurrence of (~turbulence tops)		e makes contro	lling the	UAV diffic	ult if flying l	oetween (~	turbulence	e base) &	
Old Source	(1st Cavalry Division,	1992);						Chan	ged Full Impact?	Y
New Source/ Reason for Delete	Tm 9-5895-692-10, Pa		nr 1997							
Comments										
Changed Source	ce? Y		Are There Any	(2) Optio	ons?	N		Any Ch	ange to Record?	Y
Old Color	vstem Name  1 New Color	2	UAV			Rule 1#	Cha	inged Colo		
Parameter 1 #	4 Old Param. 1 II		oudcover		aram. 1 ID		oud Cover		Changed Param.	
Parameter 2 #	3 Old Param. 2 li	O Cl	oudbase		aram. 2 ID		oud Base		Changed Param. 2	
Old Value 1	4		_	/alue 1		4/8 Coverag	е	]	hanged Value1?	Y
Old Value 2	500			/alue 2	500 Ft.			,	hanged Value 2?	N
Old Operator	\	>=	Changed Opt.				New Opt. 2	<=	Changed Opt. 2?	
Old Condense Impact	ed Cl	ouds 	New Impa	Condens ct	ed	Very Lov	w Clouds		hanged Condense npact?	ed Y
Old Full Impact	Cloud ceilings and	i bases <=	500 ft reduce th	ne groun	d area cov	ered by the	camera sy	stem.		
New Full Impac	Cloud ceilings <=	500 feet ex	ceed the visual	flight ru	les for the	Hunter UAV				
Old Source	(1st Cavalry Division	1992);						Chan	ged Full Impact?	Y
New Source/ Reason for Delete	Unmanned Aerial Vel Also may be in TM 9-			R) Standa	ard Operat	ing Procued	ures (SOP	, page C-	57, date unknown	la.
Comments								, , , , , , , , , , , , , , , , , , , ,		
Changed Source	ce? Y		Are There Any	/ (2) Optio	ons?	Y	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Any Ch	ange to Record?	Υ

				IWE	DA Sy	stem Ru	les					
ID # 235 Syst	em Name			UAV			Rule 1#	93	Rule 2#	93	Delete Rule	? Y
Old Color 2	New	Color							Changed C	olor?		
Parameter 1 #	4 Old	Param. 1 ID	clo	udcover	New P	aram. 1 ID				Cha	nged Param.	1?
Parameter 2 #	3 Old	Param. 2 ID	clo	udbase	New P	aram. 2 ID				Cha	nged Param.	2? 🔙
Old Value 1	<del></del>	4		New \	/alue 1					Chan	ged Value1?	
Oid Value 2		200		New \	/alue 2					Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1		Changed Opt.	1?	Old Opt. 2	? <= N	lew Op	ot. 2	Ch	anged Opt. 2?	
Old Condensed Impact		Cloud	s	New Impa	Condens ct	ed				Chang Impac	ged Condense t?	id
Old Full Impact		eilings and ba e UAV very d		00 ft reduce th	e groun	d area cove	ered by the	camera	a system a	nd mak	es locating a	nd
New Full Impact												
Old Source	1st Cavalr	y Division, 19	92);				7		Cł	anged	Full Impact?	
New Source/ Reason for Delete	elete Rule	e: Replace by	rule ID#	234								
Comments												
Changed Source	? Y			Are There Any	(2) Optio	ons? Y			Any	Change	to Record?	Y
ID# 236 Syst	em Name			UH-1			Rule 1#	24	Rule 2#		Delete Rule	? N
Old Color 1	New	Color 1							Changed C	olor?	N	
Parameter 1 #	<b>22</b> Old	Param. 1 ID	tem	perature	New P	aram. 1 ID	Ter	nperat	ure	Cha	nged Param. 1	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	nged Param. 2	2?
Old Value 1		100		New V	/alue 1		100 F			Chang	ged Value1?	N
Old Value 2				New V	/alue 2					Chang	ged Value 2?	
Old Operator 1	>= 1	lew Opt. 1	>=	Changed Opt.	1? N	Old Opt. 2	N	lew Op	t. 2	Cha	anged Opt. 2?	
Old Condensed Impact		Hot		New Impac	Condens ct	ed	Very	Hot		Chang Impac	jed Condense t?	d Y
Old Full Impact	Tempera	atures >= 100	F degrad	e aircraft perfe	ormance	•						
New Full Impact	Tempera	atures >= 100	F degrad	e aircraft perfo	ormance	•						
Old Source	ist Cavain	/ Division, 199	92);				7		Ch	anged I	Full Impact?	N
<u> </u>	· · · · · · · · · · · · · · · · · · ·	-210-10, Chap		1997			-					
Comments												
Changed Source	? Y			Are There Any	(2) Optio	ons?	Ī		Any	Change	to Record?	Υ

			IWEDA S	System	Rule	es .				
ID # 237 Syste	em Name	UF	I-1			Rule 1 # 32	Rule 2#	Del	lete Rule?	? N
Old Color 2	New Color 1					C	hanged Co	olor? Y	j	
Parameter 1 #	23 Old Param. 1 ID	thundersto	m Ne	w Param. 1	ID	Thundersto	rm	Changed	Param. 1	1? N
Parameter 2 #	Old Param. 2 ID		Ne	w Param. 2	ID_		4	Changed	Param. 2	2?
Old Value 1	1		New Value	1		yes		Changed V	/alue1?	Y
Old Value 2			New Value	2				Changed V	/alue 2?	
Old Operator 1	= New Opt. 1	= Chang	ed Opt. 1?	N Old O	pt. 2	New Opt.	2	Change	d Opt. 2?	
Old Condensed Impact	Thunde	rstorm	New Condo Impact	ensed		Thunderstorm		Changed C Impact?	ondense	d N
Old Full Impact	Any occurrence of t	hunderstorms cu	rtail aircraft	and refueli	ing op	erations due to sa	afely consi	derations.		
New Full Impact	Intentional flight int	o thunderstorms	is prohibited	. Thunder	storms	s must be avooide	ed causing	mission d	elays.	
Old Source (1	st Cavalry Division, 1	992);					Cha	inged Full li	mpact?	Y
New Source/ T	M 55-1520-210-10, Par R 95-1, Para 5-2d(3), M	a 5-10c, Nov 1993	3							
Comments										
Changed Source	? Y	Are Th	ere Any (2) O	ptions?	N		Any (	Change to R	lecord?	Y
ID # 238 Syste	em Name	UH	I-1			Rule 1 # 56	Rule 2#	Del	lete Rule?	? N
Old Color 2	New Color 1					C	hanged Co	olor? Y		
Parameter 1 #	10 Old Param. 1 ID	freezingra	n Ne	w Param. 1	ID	Freezing Ra	ain	Changed	Param. 1	? N
Parameter 2 #	Old Param. 2 ID		Ne	w Param. 2	ID			Changed	Param. 2	2?
Oid Value 1	0		New Value	1		None		_ Changed V	/alue1?	Y
Old Value 2			New Value	2				Changed V	/alue 2?	
Old Operator 1	> New Opt. 1	> Chang	ed Opt. 1?	N Old O	pt. 2	New Opt.	2	Change	d Opt. 2?	
Old Condensed Impact	Freezin	g Rain	New Cond	ensed		Freezing Rain		Changed C Impact?	Condense	d N
Old Full Impact	Any occurrence of f	reezing rain dela	s mission la	unch beca	ause e	xposed aircraft m	ust be dei	ced.		
New Full Impact	Any occurrence of t	reezing rain dela	s mission la	unch beca	ause e	xposed aircraft m	ust be dei	ced.		
Old Source	Ist Cavalry Division, 1	992);					Cha	anged Full I	mpact?	N
	M 55-1520-210-10, Par		3							
Comments										
Changed Source	? Y	Are Th	ere Any (2) C	options?	N		Any (	Change to F	Record?	Y

			IWED	A Sy	stem R	lules					
ID # 239 Syste	em Name	UI	<del>1</del> -1			Rule 1 #	63	Rule 2#		Delete Rule?	? N
Old Color 2	New Color 2							Changed C	olor?	N	
Parameter 1 #	21 Old Param. 1 ID	surfacewinds	peed	New F	aram. 1 II	D Surfac	e Wind	Speed	Chang	ged Param. 1	1? N
Parameter 2 #	Old Param. 2 ID			New F	aram. 2 II	0			Chang	ged Param. 2	2? 🔙
Old Value 1	30		New Va	alue 1		30 kts.			Change	d Value1?	N
Old Value 2			New Va	alue 2					Change	d Value 2?	
Old Operator 1	>= New Opt. 1	> Chang	jed Opt. 1	? Y	Old Opt	. 2	New Opt	t. 2	Chan	ged Opt. 2?	
Old Condensed Impact	Surface	Wind	New Co	ondens	ed	Surfac	e Wind		Change Impact?	d Condense	d N
Old Full Impact	Surface wind speed	> 30 kts exceeds	the syst	em ope	erating lin	nits to take-of	ff.				
New Full Impact	Surface wind speed	> 30 kts exceeds	the syst	em ope	erating lin	nits for start (	ıp, cros	ss wind ho	ver, and	tail wind ho	ver.
Old Source (1	Ist Cavalry Division, 1	9921:						Ch	anged Fu	ill Impact?	Υ
<u></u>	M 55-1520-210-10, Par		993								
Comments											
Changed Source?	? Y	Are Th	ere Any (	2) Optic	ons?	N		Any	Change t	o Record?	Y
ID # 240 Syste	em Name	Uł	1-1			Rule 1 #	67	Rule 2#		Delete Rule?	, <b>A</b>
Old Color 1	New Color						(	Changed C	olor?		
Parameter 1 #	21 Old Param. 1 ID	surfacewinds	peed	New P	aram. 1 IC	)			Chang	jed Param. 1	?
Parameter 2 #	Old Param. 2 ID			New P	aram. 2 IC				Chang	jed Param. 2	? 🔙
Old Value 1	20		New Va	ilue 1					Change	d Value1?	
Old Value 2			New Va	ilue 2					Change	d Value 2?	
Old Operator 1	>= New Opt. 1	Chang	ed Opt. 1	?	Old Opt.	. 2 N	lew Opt	. 2	Chan	ged Opt. 2?	
Old Condensed Impact	Surface	Wind	New C	ondens	ed				Change Impact?	d Condensed	t
Old Full Impact	Surface wind speed	> 20 kts impacts	the abilit	ty to tal	ce-off safe	ely.					
New Full Impact											
Old Source (1	st Cavalry Division, 19	992);						Cn	anged Fu	il Impact?	
New Source/ Reason for Delete	elete Rule: redundant	with rule ID# 239	)								
Comments											
Changed Source?	Y	Are Th	ere Any (	2) Optic	ns?	N		Any	Change t	o Record?	Y

		IWE	DA System	Rules				
ID # 241 Syst	tem Name	UH-1		Rule	1 # <b>75</b> R	ule 2 #	Delete Rule?	? N
Old Color 2	New Color 2				Cha	anged Color	? N	
Parameter 1 #	20 Old Param. 1 ID	surfacewindgust	New Param.	I ID Su	ırface Wind G	ust	Changed Param.	1? N
Parameter 2 #	Old Param. 2 ID		New Param.	2 ID		· .	Changed Param. 2	2?
Old Value 1	30	New \	/alue 1	30 kts	ş.	Cł	nanged Value1?	N
Old Value 2		New \	/alue 2			Cł	nanged Value 2?	
Old Operator 1	>= New Opt. 1	>= Changed Opt.	1? N Old 0	Opt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Gust	New Impa	Condensed ct		Gust		nanged Condense pact?	ed N
Old Full Impact	Surface wind gust >= 3	30 kts exceeds the sys	tem limits to s	art engines.				
New Full Impact	Surface wind gust >= 3	80 kts exceeds the sys	tem limits to s	art engines.				
Old Source (	1st Cavalry Division, 199	2);				Chang	ed Full Impact?	N
New Source/ Reason for Delete	ГМ 55-1520-210-10, Para 8	5-13d, Nov 1993						
Comments						•		
Changed Source	? Y	Are There Any	(2) Options?	N		Any Cha	inge to Record?	Y
ID # 242 Syst	tem Name	UH-1		Rule	1# <b>76</b> R	ule 2 #	Delete Ruie?	? N
Old Color 1	New Color 1				Cha	anged Color	? N	
Parameter 1 #	12 Old Param. 1 ID	icingintensity	New Param.	1 ID	Icing Intensity	, (	Changed Param. 1	1? N
Parameter 2 #	Old Param. 2 ID		New Param.	2 ID			Changed Param. 2	2?
Old Value 1	0	New \	/alue 1	None	<b>)</b>	] CH	anged Value1?	Y
Old Value 2		New \	/alue 2			Cr	anged Value 2?	
Old Operator 1	> New Opt. 1	> Changed Opt.	1? N Old 0	Opt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Icing Ald	oft New Impa	Condensed ct	lo	ing Aloft		nanged Condense pact?	ed N
Old Full Impact	Upper-level icing inter	sity > none may degra	ade performand	e.				
New Full Impact	Continuos flight icing (~icing top) feet AGL	intensity > none may	degrade perfor	mance if the	aircraft is flyi	ng betweer	ı (~icing base) ar	nd
Ti						Chang	ed Full Impact?	Y
يًا الله	1st Cavalry Division, 199							
New Source/ Reason for Delete	TM 55-1520-210-10, Para t	3-64b, Nov 1993						
Comments								
Changed Source	e? Y	Are There Any	(2) Options?	N		Any Cha	ange to Record?	Y

			IWEL	DA Sys	tem Rui	es			
ID # <b>243</b> Sys	stem Name		UH-1			Rule 1 # 77	Rule 2#	Delete Rule	? N
Old Color 2	New Color	2					Changed Co	ior? N	
Parameter 1 #	12 Old Param.	1 ID ici	ngintensity	New Pa	ram. 1 ID	lcing Inten	sity	Changed Param.	1? N
Parameter 2 #	Old Param.	2 ID		New Pa	ıram. 2 ID			Changed Param. 2	2?
Old Value 1	1		New Va	alue 1		Light		Changed Value1?	Y
Old Value 2			New Va	alue 2				Changed Value 2?	
Old Operator 1	> New Opt	. 1 >	Changed Opt. 1	1? N	Old Opt. 2	New Opt	2. 2	Changed Opt. 2?	
Old Condensed Impact	lo	ing Aloft	New C Impac	Condense t	d	Icing Aloft		Changed Condense Impact?	d N
Old Full Impact	Upper-level icir	ng intensity >	light may degrad	le perfor	mance.				
New Full Impact	Intentional fligh	nt into known	> light icing is p	rohibited	if flight lev	el is between (~io	ing base) a	nd (~icing tops)	
T							Cha	nged Full Impact?	Y
Ľ	(1st Cavalry Division								
New Source/ Reason for Delete	TM 55-1520-210-10	, Para 5-13b, i	Nov 1993						
Comments									
Changed Source	9? Y		Are There Any (	(2) Option	ns? N		Any C	hange to Record?	Y
ID# 244 Sys	tem Name New Color	1	UH-1			Rule 1 # 79	Rule 2 # [ Changed Co	Delete Rule?	N
Parameter 1 #	24 Old Param.	1 ID turbul	enceintensity	New Pa	ram. 1 ID	Turbulence In	tensity	Changed Param. 1	? N
Parameter 2 #	Old Param.	2 ID		New Pa	ram. 2 ID			Changed Param. 2	<u> </u>
Old Value 1	1		New Va	alue 1		Light		Changed Value1?	Y
Old Value 2			New Va	alue 2				Changed Value 2?	
Old Operator 1	> New Opt	. 1 >	Changed Opt. 1	? N	Old Opt. 2	New Opt	. 2	Changed Opt. 2?	
Old Condensed Impact	Turb	ulence Aloft	New C	ondensed t	d	Turbulence Alo		Changed Condensed Impact?	d N
Old Full Impact	Upper-level turi	oulence > ligh	t intensity degra	des flyin	g safety.				
New Full Impact	Intentional fligh (~turbuence top		nce>light is not r	ecomme	nded if fligl	nt level is betwee	n (~turbuler	nce base) &	
Old Source	1st Cavalry Division	on, 1992);					Cha	nged Full Impact?	Y
New Source/ Reason for Delete	ГМ 55-1520-210-10	, Para 5-10b, I	Nov 1993						
Comments									
L Changed Source	? <b>Y</b>		Are There Any (	(2) Option	ıs? N		Any C	hange to Record?	Y

				1/	WED	A Sys	stem	Rul	les						
ID # 245 Syste	m Name	,		UH-1					Rule 1#	80	Rule	2#		Delete Rul	e? N
Old Color 2	Nev	v Color 2									Change	ed Col	or?	N	
Parameter 1 #	24 Ok	d Param. 1 ID	turbule	enceintens	ity	New P	aram. 1	ID[	Turbul	ence In	tensity	<i>'</i>	Char	nged Param	. 1? N
Parameter 2 #	Old	i Param. 2 ID				New P	aram. 2	ID[					Char	nged Param	2?
Old Value 1		2		N	lew Val	ue 1			Moderate			(	Chang	ed Value1?	Y
Old Value 2				N	lew Val	ue 2						C	hang	ed Value 2?	
Old Operator 1	>	New Opt. 1	>	Changed	Opt. 1?	N	Old O	pt. 2	N	lew Opt	t. 2		Cha	inged Opt. 2	?
Old Condensed Impact		Turbulen	ce Aloft		New Co Impact	ndense	ed	S	evere Turb	ulence	Aloft		Chang mpac	ed Condens	ed Y
Old Full Impact	Upper-	level turbuler	nce > mod	lerate inter	nsity ex	ceeds	the ope	erati	ng limits.						
New Full Impact		onal flight int & (~turbuence			ence >	moder	ate inte	nsit	y is prohibi	ted. If	flight l	evel is	betw	reen (~turbu	ilence
Old Source (1	st Caval	ry Division, 1	992);						]			Char	ged F	Full Impact?	Y
<u></u>		20-210-10, Par		lov 1993					J						
Comments								-							
Changed Source?	Y			Are There	Any (2	2) Optio	ns?	N			,	Any Cl	nange	to Record?	Y
ID # 246 Syste	m Name	;		UH-1					Rule 1#	85	Rule	2#		Delete Rul	e? N
Old Color 1	Nev	v Color 1									Change	ed Col	or?	N	
Parameter 1 #.	<b>13</b> Oid	d Param. 1 ID	pres	surealtitud	е	New P	aram. 1	ID	Press	ure Al	titude		Char	nged Param	1? N
Parameter 2 #	Old	d Param. 2 ID				New P	aram. 2	ID					Char	nged Param	. 2?
Old Value 1		5000		] N	lew Val	ue 1			5000 ft.			(	Chang	ed Value1?	N
Old Value 2				]	lew Val	ue 2						(	Chang	ed Value 2?	
Old Operator 1	>	New Opt. 1	>	Changed	Opt. 1?	N	Old O	pt. 2		lew Op	t. 2		Cha	inged Opt. 2	?
Old Condensed Impact		Pressure	Altitude		New Co Impact	ondens	ed	]	High Press	ure Alti	itude		Chang mpac	jed Condens t?	sed Y
Old Full Impact	Operat	ting performa	nce of rot	ary wing a	ircraft i	is decr	eased v	whe	n operating	at pre	ssure a	altitud	es > 5	i000 ft.	
New Full Impact	Operat	ting performa	nce of rot	ary wing a	ircraft i	is decr	eased v	whe	n operating	at pre	ssure a	altitud	es > 5	5000 ft.	
Old Source (1	st Cava	Iry Division, 1	992);			,			]			Char	iged F	Full Impact?	N
New Source/ TI	M 55-152	20-210-10, Ch Para 5-8, Sep	apter 7, F	eb 1997											
Comments															
Changed Source?	Y			Are There	e Any (2	2) Optic	ons?	N	I ]			Any C	hange	to Record?	Y

				IWE	DA Sy	stem Rı	ules					
ID # 247 Sys	stem Name			UH-1			Rule 1#	86	Rule 2#	!	Delete Rule	? Y
Old Color 2	2 New	Color							Changed	Color?		
Parameter 1 #	13 Old	Param. 1 ID	press	urealtitude	New P	aram. 1 ID				Cha	anged Param.	1?
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	anged Param.	2?
Old Value 1		10000		New V	alue 1					Chan	ged Value1?	
Old Value 2				New V	alue 2					Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1		Changed Opt.	1?	Old Opt.	2 1	lew Op	ot. 2	Ch	anged Opt. 2?	
Old Condensed Impact	j	Pressure	Altitude	New 0	Condens t	ed				Chan	ged Condense ct?	d
Old Full Impact				ary wing aircraf uired to reduce						pressur	e altitudes >	
New Full Impact												
Old Source	(1st Cavalr	y Division, 1	992);						С	hanged	Full Impact?	
	Delete Rui condition.	e: This is too	restrictiv	ve as a red cond	dition, p	ilot has op	otions. It is in	nclude	d in > 5000	) ft as a	n amber	
Comments			· · · · · · · · · · · · · · · · · · ·	•								
Changed Source	e? Y			Are There Any	(2) Optic	ns?	N		Any	/ Chang	e to Record?	Y
ID # <b>248</b> Sys	tem Name			UH-60			Rule 1#	15	Rule 2#		Delete Rule	? N
Old Color 2	! New	Color 1							Changed (	Color?	Y	
Parameter 1 #	<b>22</b> Old	Param. 1 ID	tem	perature	New P	aram. 1 ID	Tei	nperat	ure	Cha	inged Param. 1	1? N
Parameter 2 #	Old	Param. 2 ID			New P	aram. 2 ID				Cha	inged Param. 2	2? 🔙
Old Value 1		-29		New V	alue 1		- 29 F			Chan	ged Value1?	N
Old Value 2				New V	alue 2					Chan	ged Value 2?	
Old Operator 1	<= I	New Opt. 1	<	Changed Opt. 1	? Y	Old Opt.	2 N	lew Op	t. 2	Ch	anged Opt. 2?	
Old Condensed Impact	1	Col	d	New C Impac	Condense t	ed	Extrem	e Cold		Chan Impac	ged Condense ct?	d Y
Old Full Impact	Temper	atuers < -29	exceed	the operating li	mits with	n normal s	service.					
New Full Impact	Temper	atuers < -29	exceed	the operating li	mits witi	n normal s	service.					
Old Source	(1st Cavalr	y Division, 1	192).				7		С	hanged	Full Impact?	N
L.		)-237-10, Para		g 93								
Comments	Expectatio	n is that cold	weather	operations serv	icing is	available						
Changed Source	? Y			Are There Any	(2) Optio	ns?	N		Any	Change	e to Record?	Y

#### **IWEDA System Rules** ID# 249 System Name UH-60 Rule 1# 24 Rule 2# Delete Rule? Old Color **New Color** Changed Color? N 22 Old Param. 1 ID temperature New Param. 1 ID Changed Param. 1? N Parameter 1 # Temperature Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 100 New Value 1 100 F Changed Value1? Old Value 2 New Value 2 Changed Value 2? N Old Opt. 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Changed Opt. 2? New Opt. 2 **Old Condensed** Hot **New Condensed** Very Hot Changed Condensed | Impact Impact Impact? Old Full Impact Temperatures >= 100 F degrade aircraft performance. New Full Impact Temperatures >= 100 F degrade aircraft performance. Changed Full Impact? N Old Source (1st Cavalry Division, 1992); New Source/ TM 1-1520-237-10, Para 5.30, 5.31, Jun 1996 Reason for Delete Comments Y Y N Changed Source? Are There Any (2) Options? Any Change to Record? ID # 250 **UH-60** Rule 1# 32 Rule 2# Delete Rule? N System Name Υ Old Color 2 **New Color** Changed Color? New Param. 1 ID Thunderstorm Changed Param. 1? N Old Param. 1 ID thunderstorm Parameter 1 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Υ New Value 1 Changed Value 1? Old Value 1 yes Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed Old Condensed** Thunderstorm **Thunderstorm** Changed Condensed N Impact Impact? Impact Old Full Impact Any occurrence of thunderstorms curtail aircraft and refueling operations due to safely considerations. Intentional flight into thunderstorms is prohibited. Therefore, a delay in mission completion may result. New Full Impact Υ Changed Full Impact? Old Source (1st Cavalry Division, 1992); TM 55-1520-237-10, para 5-45, Aug 93 New Source/ Reason for Delete Comments Y Y N Changed Source? Any Change to Record? Are There Any (2) Options?

#### **IWEDA System Rules** UH-60 Rule 2# Delete Rule? ID# 251 System Name Rule 1# 56 2 Y **New Color** Changed Color? Old Color Parameter 1 # 10 Old Param. 1 ID freezingrain New Param, 1 ID Freezing Rain Changed Param. 1? N Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID Old Value 1 0 New Value 1 None Changed Value1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? New Opt. 1 New Opt. 2 Changed Condensed N Old Condensed Freezing Rain **New Condensed** Freezing Rain Impact Impact Impact? Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. Old Full Impact Any occurrence of freezing rain delays mission launch because exposed aircraft must be deiced. New Full Impact Changed Full Impact? Ν Old Source (1st Cavalry Division, 1992); TM 1-1520-237-10, Para 5.28, 8.42, Jun 1996 New Source/ Reason for Delete Comments N Y Y Changed Source? Are There Any (2) Options? Any Change to Record? N **UH-60** 63 Rule 2# Delete Rule? 252 System Name Rule 1# ID# Y **Changed Color? New Color** Old Color surfacewindspeed New Param. 1 ID Surface Wind Speed Changed Param. 1? 21 Old Param. 1 ID Parameter 1 # Changed Param. 2? Parameter 2 # Old Param. 2 ID New Param. 2 ID 30 New Value 1 45 kts. Changed Value1? Old Value 1 Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Y Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Old Condensed Surface Wind **New Condensed** Stong Surface Wind Changed Condensed Υ Impact Impact? Impact Surface wind speed > 30 kts impacts the ability to take-off safely. Old Full Impact Rotor should not be started or stopped when surface wind > 45 kts. New Full Impact Changed Full Impact? Υ Old Source (1st Cavalry Division, 1992); New Source/ TM 1-1520-237-10, Para 5.6.1, 5.8, and 5.25, Jun 1996 Reason for Delete Comments Υ N Any Change to Record? Changed Source? Υ Are There Any (2) Options?

		IV	VEDA Sy	stem Rul	les			
ID # 253 Syste	m Name	UH-60			Rule 1 # 68	Rule 2#	Delete Rule	9? Y
Old Color 2	New Color					Changed C	olor?	
Parameter 1 #	21 Old Param. 1 ID	surfacewindspee	d New F	aram. 1 ID			Changed Param.	1?
Parameter 2 #	Old Param. 2 ID		New F	aram. 2 ID			Changed Param.	2?
Old Value 1	45	N	ew Value 1				Changed Value1?	
Old Value 2		N	ew Value 2				Changed Value 2?	
Old Operator 1	> New Opt. 1	Changed (	Opt. 1?	Old Opt. 2	New Op	ot. 2	Changed Opt. 2	?
Old Condensed Impact	Surface		New Condens	ed			Changed Condens Impact?	ed
Old Full Impact	Surface wind speed	>= 45 kts exceeds th	ne system o <sub>l</sub>	perating limi	its to take -off.			
New Full Impact						Ch	Observed Evil Inc.	
Old Source (1:	st Cavalry Division, 19	992):			]	Cn	anged Full Impact?	
New Source/ Reason for Delete	elete Rule: Redundant				]			
Comments								
Changed Source?  ID # 254 Syste	Y Y	UH-60	Any (2) Option	ons? N	Rule 1 # 77	Rule 2#	Change to Record?	Y
Old Color 1	New Color 1		· · · · · · · · · · · · · · · · · · ·		J L	」 Changed C	olor? N	
Parameter 1 #	12 Old Param. 1 ID	icingintensity	New F	aram. 1 ID	Icing Inte		Changed Param.	1? N
Parameter 2 #	Old Param. 2 ID			aram. 2 ID			Changed Param.	
Old Value 1		N	ew Value 1		Trace		Changed Value1?	Y
Old Value 2		N	ew Value 2				Changed Value 2?	一
Old Operator 1	> New Opt. 1	>= Changed	Opt. 1? Y	Old Opt. 2	New Or	ot. 2	Changed Opt. 2	?
Old Condensed Impact	Icing A		New Condens	sed	Icing Aloft		Changed Condens Impact?	ed N
Old Full Impact	Upper-level icing int	ensity > light may d	egrade perfo	ormance.				
New Full Impact	Flight into icing inte level is between (~lo				s equiped with de	eice and ant	i-ice systems, if fli	ght
		*		• • • •		Ch	anged Full Impact?	Y
Old Source (1	st Cavalry Division, 1	992);						
New Source/ Reason for Delete	W 55-1520-237-10, par	ı 5-40, Aug 1993						
Comments							<del></del>	
Changed Source?	Υ	Are There	Any (2) Opti	ons?	1	Any	Change to Record?	Υ

		IWE	DA Syster	n Rules			
ID # 255 Sy	stem Name	UH-60		Rule 1 #	78 Rule 2	# Delete Rule?	N
Old Color	2 New Color 2				Changed	Color? N	L
Parameter 1 #	12 Old Param. 1 ID	icingintensity	New Param	. 1 ID Icin	g Intensity	Changed Param. 1	? N
Parameter 2 #	Old Param. 2 ID		New Param	. 2 ID		Changed Param. 2	?
Old Value 1	2	New \	/alue 1	Moderate		Changed Value1?	Y
Old Value 2		New \	/alue 2			Changed Value 2?	
Old Operator 1	New Opt. 1	> Changed Opt.	1? N Old	Opt. 2 N	lew Opt. 2	Changed Opt. 2?	
Old Condense Impact	d Icing Al	oft New Impa	Condensed ct	Severe lo	ing Aloft	Changed Condensed Impact?	Y
Old Full Impact	IAW AR95-1, aircraft o	annot fly into areas of	icing intensit	y > moderate.			
New Full Impac	t Flight into icing inten	sity > Moderate is proh	ibited, if fligh	t level is between		and (~Icing Top) feet AC	GL.
Old Source	(1st Cavalry Division, 19	32):			•	Changed Full Impact?	
New Source/ Reason for Delete	TM 55-1520-237-10, para						
Comments	,	1.44	,				
Changed Source ID # 256 Sys	stem Name	UH-60		N Rule 1#	<b>79</b> Rule 2	# Delete Rule?	N
	1 New Color 2	7	<del></del>	Truie i #	Changed		<u> </u>
Parameter 1 #	24 Old Param. 1 ID	turbulenceintensity	New Param.	1 ID Turbule	ence Intensity	Changed Param. 1	2 N
Parameter 1 #	Old Param. 2 ID	turbulencemicinary	New Param.	<u></u>		Changed Param. 2	
Old Value 1	Old Param. 2 ID	· New V		Moderate		Changed Value1?	Y
Old Value 1	i .		/alue 2	Moderato		Changed Value 2?	
Old Value 2   Old Operator 1	> New Opt. 1	> Changed Opt.		Opt. 2 N	lew Opt. 2	Changed Opt. 2?	
Old Condense		Aloft New	Condensed	Severe Turb		Changed Condensed Impact?	Y
Impact Old Full Impact	Upper-level turbulenc	e > light intensity degra		fety.		Impact:	
New Full Impac	Flight into turbulence Turbulence Top) feet	intensity > Moderate is AGL.	s prohibited, i	f flight level is bet	ween (~ Turbu	lence Base) and (~	
Old Source	(1st Cavalry Division, 199	12):			(	Changed Full Impact?	Y
New Source/	TM 55-1520-237-10, para						
Reason for Delete							
Comments							

Υ

Changed Source?

N

Are There Any (2) Options?

Any Change to Record?

					IWED	DA Sy	stem	Rule	es					
ID # <b>257</b> Sys	stem Name			UH-	60				Rule 1#	80	Rule 2	#	Delete Rule?	N
Old Color 2	New	Color 1									Changed	l Color?	Y	
Parameter 1 #	24 Old	Param. 1 ID	turbule	enceinter	nsity	New P	aram. 1	ID	Turbul	ence In	itensity	Cha	anged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID				Chi	anged Param. 2	!?
Old Value 1		2			New V	alue 1			Moderate			Char	nged Value1?	Y
Old Value 2					New V	alue 2						Char	nged Value 2?	
Old Operator 1	>	New Opt. 1	<=	Change	d Opt. 1	1? Y	Old O	pt. 2	N	lew Op	t. 2	Ch	nanged Opt. 2?	
Old Condensed Impact	i	Turbulen	ce Aloft		New C	Condens t	ed		Turbuler	ice Alo	ft	Char Impa	nged Condensed	d N
Old Full Impact	Upper-I	evel turbuler	nce > mod	lerate int	ensity (	exceeds	the op	eratin	g limits.					
New Full Impact		nto turbulend n (~ Turbuler							& delay m	ission				
Old Source	/1et Cavalr	y Division, 1	9921.					$\neg$			,	Changed	Full Impact?	Y
i.		0-237-10, par		ıg 1993			774774							
Comments														
Changed Source	e? Y			Are The	re Any	(2) Option	ons?	N			Aı	ıy Chang	ge to Record?	Y
ID # 258 Sys	stem Name			UH-0	60				Rule 1#	85	Rule 2	#	Delete Rule?	N
Old Color 1	New	Color 1									Change	I Color?	N	
Parameter 1 #	13 Old	Param. 1 ID	press	surealtitu	ıde	New P	aram. 1	ID	Press	ure Al	titude	Cha	anged Param. 1	? N
Parameter 2 #	Old	Param. 2 ID				New P	aram. 2	ID_				Cha	anged Param. 2	!?
Old Value 1		5000		]	New V	alue 1			5000 ft.			Char	nged Value1?	N
Old Value 2				]	New V							Char	nged Value 2?	
Old Operator 1	>	New Opt. 1	>	Change	d Opt. 1	1? N	Old O	pt. 2		lew Op	t. 2	Ch	nanged Opt. 2?	
Old Condensed Impact	i	Pressure	Altitude		New Compact	Condens ct	ed	Н	igh Pressı	ıre Alti	itude	Char Impa	nged Condensed act?	ďY
Old Full Impact	Operati	ng performa	nce of rot	ary wing	aircraf	t is dec	reased v	when	operating	at pre	ssure alt	itudes >	5000 ft.	
New Full Impact	Operati	ng performa	nce of rot	ary wing	aircraf	t is dec	reased	when	operating	at pre	ssure al	itudes >	5000 ft.	
	L											Changed	Full Impact?	N
Old Source	(1st Cavalı	ry Division, 1	992);											
		-237-10, Cha Para 5-8, Se <sub>l</sub>		n 1996										
Comments														
Changed Source	e? <b>Y</b>			Are The	ere Any	(2) Option	ons?	N	]		Α	ny Chanç	ge to Record?	Y

Y

Any Change to Record?

## **IWEDA System Rules** ID # 259 UH-60 Rule 1# 86 Rule 2# Delete Rule? System Name Changed Color? Old Color **New Color** pressurealtitude New Param. 1 ID Changed Param. 1? Old Param. 1 ID Parameter 1 # 13 Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 10000 New Value 1 Changed Value1? New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Pressure Altitude **New Condensed** Changed Condensed Old Condensed Impact Impact? Impact Operating performance of rotary wing aircraft is significantly decreased when operating at pressure altitudes > Old Full Impact 10,000 ft. Actions may be required to reduce payload or fuel to retain lift capability. New Full Impact Changed Full Impact? (1st Cavalry Division, 1992); Old Source Delete Rule: This is too restrictive as a red condition, pilot has options. It is included as an amber condition in > 5000 New Source/ Reason for Delete

Are There Any (2) Options?

Z

Comments

Changed Source?

**IWEDA Subsystem Rules** 

## **IWEDA Subsystem Rules ISOLDIER EFFECTIVENESS!** ID# 1 Subsystem Name Rule 1 # Rule 2# Delete Rule? N N Old Color **New Color** Changed Color? Parameter 1 # 22 Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 1? Ν Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? -25 - 25 F Old Value 1 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? | N | Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Cold **New Condensed Extreme Cold** Changed Impact Condensed Impact? Impact Old Full Impact Temperatures of -25 F or below make it very difficult for an exposed soldier to perform. New Full Impact For temperatures of - 25 F or below survial efforts required. Changed Full Impact Y **Old Source** (Battlefield Environment Division, 1995); FM 90-22, Chapter 1, Figure B-2, Jan 1991 **New Source** FM 31-71, Figure 2-1, Jun 1971 Comments Change to Source? Y Are There Any (2) Options? N Any Change to Record? **!SOLDIER EFFECTIVENESS!** ID# 2 Subsystem Name Rule 1# 14 Rule 2# Delete Rule? N Old Color **New Color** Changed Color? 22 Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 1? Parameter 1 # New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID 10 New Value 1 10 F Changed Value 1? Old Value 1 Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Cold **New Condensed** Very Cold Changed Y Condensed Impact? impact Impact Old Full Impact Temperatures of 10 F or below make it difficult for an unprotected soldier to perform. New Full Impact Temperatures of <= 10 F diminish performance and effectiveness. Υ Changed Full Impact Old Source (Battlefield Environment Division, 1995); **New Source** FM 90-22, Chapter 1, Figure B-2, Jan 1991 Comments Change to Source? Y Are There Any (2) Options? N Any Change to Record?

		IWEDA Sul	bsystem R	ules			حجبس
ID# 3 Sub	osystem Name	SOLDIER EFFECTIVEN	ESS!	Rule 1 # 19	Rule 2#	Delete Rule?	, N
Old Color	1 New Color	1				Changed Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 I	D Tempera	ture	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 I	D		Changed Param. 2?	
Old Value 1	85	New Value 1		85 F		Changed Value 1?	N
Old Value 2		New Value 2				Changed Value 2?	
Old Operator 1	>= New Opt. 1 >	>= Changed Opt. 1?	N Old Opt. 2	New Opt.	2	Changed Opt. 2?	'
Old Condensed Impact	Hot	New Cond Impact	densed	Hot		Changed Condensed Impact?	N
Old Full Impact	Temperatures of 85 F of	or above degrade crew ef	fectiveness and	performance du	e to poss	ible heat stress.	
New Full Impact	Temperatures of 85 F of	or above degrade crew eff	fectiveness and	performance du	e to poss	ible heat stress.	
0110	(D. 41 C. 11	4005)				Changed Full Impact	N
Old Source	(Battlefield Environme	nt Division, 1995);					
New Source	TBMED 507, Section III FM 90-22, Chapter 1, Pa	, Jul 1980 ara "Heat," Jan 1991					
Comments						- · · · · · · · · · · · · · · · · · · ·	
Change to Source	ce? Y	Are There Any (	(2) Options? N		A m:	/ Change to Record?	Υ
ID# 4 Sub	osystem Name	ISOLDIER EFFECTIVEN	ESS!	Rule 1 # 20	Rule 2#	Delete Rule?	N
Old Color	2 New Color	2			L	Changed Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 I	D Tempera	ture	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 I	\		Changed Param. 2?	
Old Value 1	95	New Value 1		95 F		Changed Value 1?	N
Old Value 2		New Value 2			=	Changed Value 2?	
Old Operator 1	>= New Opt. 1 >	>= Changed Opt. 1?	Old Opt. 2	New Opt.	2	Changed Opt. 2?	
Old Condensed Impact	Hot	New Cond Impact	densed	Hot		Changed Condensed Impact?	N
Old Full Impact	Temperatures of 95 F o	or above degrade crew eff	ectiveness and	performance du	e to prob	able heat stress.	
New Full Impact	Wet bulb temperatures	>- 95 F severely degrade	effectiveness a	nd performance	due to he	eat stress.	
				,		Changed Full Impact	Y
Old Source	(Battlefield Environmen	nt Division, 1995);					
New Source	TBMED 507, Section II, FM 90-22, Chapter 1, Pa						
Comments							
Change to Source	ce? Y	Are There Any (	2) Options? N		Any	/ Change to Record?	Y

# **IWEDA Subsystem Rules**

ID# 5 Sub	osystem Name !S	OLDIER EFFECTIVEN	ESS!	Rule 1 # 84 R	ule 2 # Delete Rule?	N	
Old Color	2 New Color	2			Changed Color?	N	
Parameter 1 #	27 Old Param. 1 ID	windchill	New Param. 1 II	Wind Chill	Changed Param. 1?	N	
Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param.							
Old Value 1	-25	New Value 1		25 F	Changed Value 1?	N	
Old Value 2		New Value 2			Changed Value 2?		
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?		
Old Condensed Impact	Wind Chill	New Con-	densed	Low Wind Chill	Changed Condensed Impact?	Y	
Old Full Impact	Effective temperatures < - of freezing exposed flesh.	25 F make it very diffi	cult for a soldier	to perform withou	t shelter and presents dange	r	
New Full Impact	lew Full Impact Effective temperatures < -25 F make it very difficult for a soldier to perform without shelter and presents danger of freezing exposed flesh.						
Old Source	(Battlefield Environment D	Division, 1995);			Changed Full Impact	N	
New Source	FM 90-22, Chapter 1, Figu	re B2, Jan 1991					
Comments							
	osystem Name	120MM GUN		Rule 1 # 41 R	L	N	
Old Color Parameter 1 #	1 New Color 26 Old Param. 1 ID	visibility	New Param. 1 II	Visibility	Changed Color?  Changed Param. 1?	N	
Parameter 2 #	Old Param. 2 ID	Visibility	New Param. 1 II		Changed Param. 2?		
Old Value 1 3000 New Value 1				0 meters	Changed Value 1?	N	
Old Value 2	3000	New Value 2	300	o meters	Changed Value 2?		
Old Operator 1	<= New Opt. 1 <=		N Old Opt. 2	New Opt. 2	Changed Opt. 2?		
Old Condensed Impact	Reduced Visibili			educed Visibility	Changed Condensed Impact?	N	
	Visiblity < 1.8 miles (3000		num effective rar	nge.	Condensed impact:		
New Full Impact	Visiblity < 1.8 miles (3000	m) reduces the maxin	num effective rar	nge.			
					Changed Full Impact	N	
Old Source	(1st Cavalry Division, 199	2);					
Old Source New Source	FM 34-81-1, Appendix C-4	, Dec 1992 ERATION DESERT ST	ORM: Early Perf	ormance Assessm	ent of Bradley and Abrams.		
	FM 34-81-1, Appendix C-4 GAO Report Jan 1992. OP	, Dec 1992 ERATION DESERT ST	ORM: Early Perf	ormance Assessm	ent of Bradley and Abrams.		

Any Change to Record?

## **IWEDA Subsystem Rules 120MM GUN** Rule 1 # 44 Rule 2 # ID# 7 Subsystem Name Delete Rule? Changed Color? Old Color **New Color** visibility New Param. 1 ID Changed Param. 1? Parameter 1 # 26 Old Param. 1 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID Changed Value 1? Old Value 1 2500 New Value 1 New Value 2 Changed Value 2? Old Value 2 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 Old Condensed **Reduced Visibility New Condensed** Condensed Impact? Impact Impact Old Full Impact Visibility < 1.5 miles (2500 m) reduces the maximum effective range. New Full Impact Changed Full Impact Old Source (1st Cavalry Division, 1992); Delete Rule: No reference in FM 34-81-1, Dec 1992. Distance included in ID# 6 as an amber. **New Source**

ID# 8	Subsystem Name	120MM GUN	F	Rule 1 # <b>68</b> Rule	2# Delete Rule? N		
Old Color	2 New Color	1			Changed Color? Y		
Parameter 1	# 21 Old Param. 1 ID	surfacewindspeed	New Param. 1 ID	Surface Wind Spo	eed Changed Param. 1? N		
Parameter 2	# Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?		
Old Value 1	45	New Value 1		45	Changed Value 1? N		
Old Value 2		New Value 2			Changed Value 2?		
Old Operator	1 > New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?		
Old Condens Impact	sed Surface Win	d New Cond Impact	densed Stro	ong Surface Wind	Changed Condensed Impact?		
Old Full Impact Surface wind speed >= 45 kts exceeds the limit for input into the ballistic computer.							
New Full Impact Surface wind speed >= 45 kts exceeds the limit for input into the ballistic computer.							
					Changed Full Impact N		
Old Source	(1st Cavalry Division, 19	92);					
New Source	FM 34-81-1, Appendix C	·1, Dec 1992					
Comments							
Change to So	ource? V	Are There Any	(2) Ontions? N		Any Change to Record? Y		

Are There Any (2) Options?

N

Comments

Change to Source?

		IWEDA Sul	osystem R	lules	
ID # 9 Sub	system Name	2.75 INCH ROCKET		Rule 1 # 55 Ru	le 2 # Delete Rule? N
Old Color	1 New Color	2		d L	Changed Color? Y
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1	ID Freezing Rai	n Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID	Changed Param. 2?
Old Value 1	1	New Value 1		None	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Freezing Rain	New Cond Impact	iensed	Freezing Rain	Changed Condensed Impact?
Old Full Impact	Freezing rain > light inten	sity may cause the roo	ket to hang-fire	Э.	
	Firing the 2.75 inch rocket launcher tube.	t is prohibited with fre	ezing rain > no	ne because the rock	et may be held captive in the
Old Source	(1st Cavalry Division, 199	2);			Changed Full Impact Y
New Source	TM 55-1520-236-10, Para 8	I-51, 8-81, Aug 1994			
Comments					
Change to Source	e? Y	Are There Any	2) Options?	N	Any Change to Record? Y
onungo to court		, , , ,	, -		,ge
ID# 10 Sub	system Name	2.75 INCH ROCKET		Rule 1 # 82 Ru	le 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	25 Old Param. 1 ID u	pperairwindspeed	New Param. 1	ID Upperair Wind S	peed Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID	Changed Param. 2?
Old Value 1	25	New Value 1		25 kts.	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Winds Aloft	New Condimpact	densed	Winds Aloft	Changed Condensed Impact?
Old Full Impact	Upper-level wind speed >	25 kts degrades targe	t impact effecti	veness.	
New Full Impact	Upper-level wind speed >	25 kts. degrades targe	et impact effect	iveness.	
					Changed Full Impact N
Old Source	(1st Cavalry Division, 199	2);			
New Source	Personal interview with S Helicopter Regiment, Ft. I		4 Ronald C. Mo	ring, Regiment Mast	er Gunner, 229 Attack
Comments					

Are There Any (2) Options? N

Y

Change to Source?

	<del></del>		·····	<del></del>	
ID # 11 Su	bsystem Name	25MM GUN		Rule 1 # 44 Ru	le 2 # Delete Rule? N
Old Color	2 New Color	1			Changed Color? Y
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 I	D Visibility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 I	D	Changed Param. 2?
Old Value 1	2500	New Value 1	200	0 meters	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	< New Opt. 1	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Reduced Visi	bility New Cor	ndensed	Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility < 1.5 miles (25	500 m) reduces the max	imum effective ra	nge.	
New Full Impact	Visibility < 1.2 miles (20	000 m) reduces the max	imum effective ra	nge	
					Changed Full Impact Y
Old Source	(1st Cavalry Division, 1	992);			
New Source	FM 23-1, Para 1-8, Mar	1996			
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options? N		Any Change to Record?
ID # 12 Sub	osystem Name	30MM CANNON		Rule 1 # 46 Ru	le 2 # Delete Rule? N
Old Color	1 New Color	1		rtuic i # 40 rtu	Changed Color? N
	26 Old Param. 1 ID	visibility	New Param. 1 II	Visibility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	Visionity	New Param. 2 II		Changed Param. 2?
Old Value 1	4000	New Value 1		0 meters	Changed Value 1? Y
Old Value 1	4000	New Value 2	200	o ineters	Changed Value 2?
Old Operator 1	< New Opt. 1	<del></del>	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed	Reduced Visit			Low Visibility	
Impact	Reduced Visit	Impact	densed	LOW VISIBILITY	Changed Condensed Impact?
Old Full Impact	Visibility < 2.5 miles (40	00 m) reduces the oper	ating capability.		
New Full Impact	Visibility < 1.25 miles (2	000 m) reduces the acq	uisition capability	<b>/</b> .	
					Changed Full Impact Y
Old Source	(1st Cavalry Division, 1	992);			
New Source	Personal interview with Helicopter Regiment, Ft		4 Ronald C. Mori	ng, Regiment Maste	er Gunner, 229 Attack
Comments					
Change to Source	ce? Y	Are There Any	(2) Options? N	]	Any Change to Record? Y

#### IWEDA Subsystem Rules **30MM MACHINE GUN** ID# 13 Subsystem Name Rule 1 # 74 Rule 2# Delete Rule? Y Old Color **New Color** Changed Color? Parameter 1 # Old Param. 1 ID surfacewindspeed New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 17 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Old Operator 1 New Opt. 1 Old Opt. 2 New Opt. 2 Changed Opt. 2? **Old Condensed** Surface Wind New Condensed Changed Impact Impact Condensed Impact? Old Full Impact Surface wind speed >= 17 kts makes accurate firing of the weapon difficult. New Full Impact Changed Full Impact Old Source (1st Cavalry Division, 1992); Delete Rule: Personal interview with SME, 14 Nov 1997, CW4 Ronald C. Moring, Regiment Master Gunner, 229 **New Source** Attack Helicopter Regiment, Ft. Bragg, NC. Comments Y Change to Source? Are There Any (2) Options? Any Change to Record? 7.62MM COAX MACHINE GUN 43 N ID# 14 Subsystem Name Rule 1# Rule 2# Delete Rule? **New Color** Changed Color? Ν Old Color 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N Parameter 1 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Value 1 300 New Value 1 800 meters Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 **Old Condensed Reduced Visibility** New Condensed Very Low Visibility Changed Impact Impact Condensed Impact? Old Full Impact Visibility < 0.2 mile (300 m) reduces the maximum effective range. New Full Impact Visibility < 0.5 mile (800 m) reduces the maximum effective range. Changed Full Impact Y Old Source (1st Cavalry Division, 1992); **New Source** FM 23-1, Para 1-4, Mar 1996 Comments Υ Change to Source? Υ Are There Any (2) Options? Ν

		<del></del>			
ID# 15 Sui	osystem Name AE	ERIAL FORWARD OBS	ERVER	Rule 1 # 38	Rule 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1	ID Visibilit	y Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID	Changed Param. 2?
Old Value 1	3500	New Value 1	350	00 meters	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Reduced Visibi	ility New Con Impact	ndensed	Reduced Visibility	Changed Condensed Impact?
Old Full Impact	Visibility <= 2.1 miles (35	500 m) makes it difficul	t to safely and e	ffectively observe	friendly fire.
New Full Impact	Visibility <= 2.1 miles (35	500 m) makes it difficul	t to safely and e	ffectively observe	friendly fire.
Old Source	(1st Cavalry Division, 19	92);			Changed Full Impact N
New Source	FM 34-81-1, Page D-4, De FM 90-22, Chapter 1, Sec		r," Para "Visibili	ty," Jan 1991	
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options?	Ī	Any Change to Record? Y
<del></del>					
ID # 16 Sub	osystem Name AE	RIAL FORWARD OBSI	ERVER	Rule 1 # 94 F	Rule 2 # 94 Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	4 Old Param. 1 ID	cloudcover	New Param. 1 I	D Cloud Cov	ver Changed Param. 1? N
Parameter 2 #	3 Old Param. 2 ID	cloudbase	New Param. 2 I	D Cloud Ba	se Changed Param. 2? N
Old Value 1	0	New Value 1		None	Changed Value 1? Y
Old Value 2	800	New Value 2		800 ft.	Changed Value 2? N
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	<= New Opt. 2	<= Changed Opt. 2? N
Old Condensed Impact	Clouds	New Con Impact	densed	Very Log Clouds	Changed Condensed Impact?
Old Full Impact	Cloud bases <= 800 feet	make it difficult to acq	uire and identify	targets.	
New Full Impact	Cloud bases <= 800 feet	make it difficult to acq	uire and identify	targets.	
Old Source	(1st Cavalry Division, 19	92):			Changed Full Impact N
			r " Dara "Clauda	" lon 1901	
New Source	FM 90-22, Chapter 1, Sec	aurerse weathe	i, Faia Clouds	, Jan 1331	
Comments					
Change to Source	ce? Y	Are There Any	(2) Options? Y	7	Any Change to Record? Y

ID# 17 Sub										
	system Name	AERIAL FORWA	RD OBSE	RVER	Rule	1 # 95 R	ule 2 #	95	Delete Rule	N
Old Color	2 New Color	2				<u></u>		Chai	nged Color?	N
Parameter 1 #	4 Old Param. 1 ID	cloudcov	er	New Para	m. 1 ID	Cloud Cove	er	Change	d Param. 1?	N
Parameter 2 #	3 Old Param. 2 ID	cloudbas	е	New Para	m. 2 ID	Cloud Bas	е	Change	d Param. 2?	N
Old Value 1	0	New	Value 1		None	)		Changed	Value 1?	Y
Old Value 2	500	New	Value 2		500 ft	<b>.</b>		Changed	Value 2?	N
Old Operator 1	> New Opt. 1	> Changed	Opt. 1? [	N Old Opt	. 2 <=	New Opt. 2	<=	Chai	nged Opt. 23	N
Old Condensed Impact	Cloud	s	New Condimpact	densed	Very	Low Clouds		Changed Condense	ed Impact?	Y
Old Full Impact	Cloud bases <= 500 fe	eet make it very	difficult to	acquire ar	d identify	targets.				
New Full Impact	Cloud bases <= 500 fo	eet make it very o	difficult to	acquire ar	d identify	targets.				
Old Source	(1st Cavalry Division,	1992);						Changed	i Full Impact	N
New Source	FM 90-22, Chapter 1,	Section "Adverse	e Weather	," Para "Cl	ouds," Jan	1991			, , , , , , , , , , , , , , , , , , , ,	
Comments										
Change to Source	ce? Y	Are T	here Any	(2) Options	? Y	<del> </del>	Any	Change	to Record?	Y
ID # 18 Sub	system Name	AN/MPQ-53	RADAR S	ET	Rule	e 1 # 5 R	ule 2 #			
Old Color	2 New Color								Delete Rule?	N
		2					[		Delete Rule?	
Parameter 1 #				New Para	m. 1 ID	Slope		Cha	nged Color?	N
_	16 Old Param. 1 ID	slope		New Para		Slope		Change		N
Parameter 1 # Parameter 2 # Old Value 1		slope	v Value 1	ر 1	m. 2 ID			Change Change	nged Color? d Param. 1?	N
Parameter 2 #	16 Old Param. 1 ID	slope	v Value 1	ر 1				Change Change	nged Color? d Param. 1? d Param. 2?	N N
Parameter 2 # Old Value 1	16 Old Param. 1 ID	slope	Value 2	ر 1	m. 2 ID 10 Degr			Change Change Change Change	nged Color? d Param. 1? d Param. 2? I Value 1?	N N N
Parameter 2 # Old Value 1 Old Value 2	Old Param. 1 ID Old Param. 2 ID 10	Slope  New New >= Changed	Value 2	New Para	m. 2 ID 10 Degr	ees		Change Change Change Change Change Change Change	nged Color? d Param. 1? d Param. 2? d Value 1? d Value 2?	N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	Old Param. 1 ID Old Param. 2 ID 10 >= New Opt. 1 Slope When carried on the	Slope  New New >= Changed	Value 2 Opt. 1?	New Para  N Old Option	m. 2 ID 10 Degr	ees New Opt. 2 Slope		Change Changed Changed Changed Changed Changed Condense	nged Color? d Param. 1? d Param. 2? d Value 1? d Value 2? nged Opt. 23	N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	Old Param. 1 ID Old Param. 2 ID 10 >= New Opt. 1 Slope	Slope  New New >= Changed  M-860 semi-traile	Value 2 Opt. 1? [ New Conditions Impact Impact	New Para  N Old Opi  densed  trailer) the	m. 2 ID 10 Degr	ees New Opt. 2 Slope only be empl	aced w	Changed Changed Changed Changed Changed Changed Changed Condense	nged Color? ad Param. 1? ad Param. 2? ad Value 1? ad Value 2? aged Opt. 23 ad Impact? as are <= 10	N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	Old Param. 1 ID Old Param. 2 ID 10 >= New Opt. 1 Slope When carried on the degrees. When carried on the	Slope  New New Changed  M-860 semi-traile	Value 2 Opt. 1? [ New Conditions Impact Impact	New Para  N Old Opi  densed  trailer) the	m. 2 ID 10 Degr	ees New Opt. 2 Slope only be empl	aced w	Change Changed Changed Changed Changed Condense hen slop	nged Color? ad Param. 1? ad Param. 2? ad Value 1? ad Value 2? aged Opt. 23 ad Impact? as are <= 10	N N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	Old Param. 1 ID Old Param. 2 ID 10 New Opt. 1 Slope When carried on the degrees. When carried on the degrees.	New New New Semi-traile M-860 semi-traile 1992);	Value 2 Opt. 1? [ New Conditions Impact Impact	New Para  N Old Opi  densed  trailer) the	m. 2 ID 10 Degr	ees New Opt. 2 Slope only be empl	aced w	Change Changed Changed Changed Changed Condense hen slop	nged Color? ad Param. 1? ad Param. 2? ad Value 1? ad Value 2? anged Opt. 23 ad Impact? as are <= 10 as are <= 10	N N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	Old Param. 1 ID Old Param. 2 ID 10 New Opt. 1 Slope When carried on the degrees. When carried on the degrees. (1st Cavalry Division,	New New New Semi-traile M-860 semi-traile 1992);	Value 2 Opt. 1? [ New Conditions Impact Impact	New Para  N Old Opi  densed  trailer) the	m. 2 ID 10 Degr	ees New Opt. 2 Slope only be empl	aced w	Change Changed Changed Changed Changed Condense hen slop	nged Color? ad Param. 1? ad Param. 2? ad Value 1? ad Value 2? anged Opt. 23 ad Impact? as are <= 10 as are <= 10	N N N N
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	Old Param. 1 ID Old Param. 2 ID 10 New Opt. 1 Slope When carried on the degrees. When carried on the degrees. (1st Cavalry Division,	New New New Semi-traile M-860 semi-traile 1992);	Value 2 Opt. 1? [I New Conditions Impact or (HEMTT	New Para  N Old Opi  densed  trailer) the	m. 2 ID 10 Degr	ees  New Opt. 2  Slope  only be empla	aced w	Changed Changed Changed Changed Changed Condense hen slop	nged Color? d Param. 1? d Param. 2? d Value 1? d Value 2? nged Opt. 20 ed Impact? es are <= 10 d Full Impact	N N N N

				IWE	DA Su	bsys	tem R	ule	S				
ID# 19 Su	ıbsyste	em Name		DAY PE	RISCOPE	· <u>-</u>		Ru	le 1 # 37	Rule 2 #	<b>#</b>	Delete Ruis	e? N
Old Color	1	New Color	r	1					<u> </u>	•	С	_ hanged Color	? N
Parameter 1 #	26	Old Param. 1 ID	)	visibilit	у	New P	aram. 1 l	ID[	Visibi	lity	Char	iged Param. 1	? N
Parameter 2 #		Old Param. 2 ID				New P	aram. 2 I	ID [			Char	iged Param. 2	?
Old Value 1		1000		Nev	v Value 1		150	00 m	eters		Chang	ged Value 1?	Y
Old Value 2				Nev	v Value 2						Chang	ged Value 2?	
Old Operator 1	<	New Opt. 1	<	Changed	l Opt. 1? [	N Old	Opt. 2		New Opt.	2	c	hanged Opt. 2	2?
Old Condensed Impact	1	Reduced \	/isibility	<i>'</i>	New Con Impact	densed		Lo	w Visibility		Change Conde	ed nsed Impact?	Y
Old Full Impact	Any	occurrence of v	/isibility	< 0.6 mile	(1000 m)	decreas	ses the w	veap	on sighting	capabili	y.		
New Full Impac	Any	occurrence of v	isibility	< 0.9 mile	(1500 m)	decreas	es the w	veap	on sighting	capabilit	у.		
Old Source	(1st (	Cavalry Division	n. 1992)	:							Chang	ged Full Impac	t Y
	<u> </u>												
New Source	Pers	onal interview v	with SM	E 12 nov 1	997, CSM	D. Schv	vab, HHC	C 1-5	2 AR Btn, N	CANG, F	t. Bragg	j, NC	
Comments	Origi	inal rule dealt w	/ith M1.	Therefore	used sou	rce from	M1 syst	tem	rule ID 146.	\$			
Change to Sour	rce?	Υ		Are -	There Any	(2) Ontic	ns? N	<u> </u>		Δ,		ge to Record?	Υ
ID # 20 Su	bsyste	m Name		DAY PE	RISCOPE			Rul	e 1 # <b>134</b>	Rule 2#	134	Delete Rule	? N
Old Color	1	New Color							<u> </u>	1	C	_ hanged Color:	? 🗀
Parameter 1 #	26	 Old Param. 1 ID		visibility	/	New P	aram. 1 l	D	Visibil	ity	Chan	ged Param. 1	? N
Parameter 2 #	1	Old Param. 2 ID		blowingsa	ınd	New P	aram. 2 li	DΠ	Blowing	Sand	Chan	ged Param. 2	? N
Old Value 1		1000		New	/ Value 1		150	00 m	eters		Chang	ged Value 1?	Y
Old Value 2		1		New	Value 2			Yes	}		Chang	jed Value 2?	Υ
Old Operator 1	<	New Opt. 1	<	Changed	Opt. 1? [	Old	Opt. 2		New Opt.	2 =	CI	hanged Opt. 2	? N
Old Condensed Impact		Sandst	torm		New Cond Impact	densed		S	andstorm		Change Conder	ed nsed Impact?	N
Old Full Impact	Any o	occurrence of b	lowing	sand and	visibility <	0.6 mil	e (1000 n	n) de	ecreases the	weapor	sightin	g capability.	
New Full Impac	t Any o	occurrence of b	lowing	sand and	visibility <	0.9 mil	e (1500 n	n) de	ecreases the	weapor	sightin	g capability.	
											Chang	jed Full Impac	t Y
Old Source	(1st (	Cavalry Division	1, 1992);							. 31			
New Source	Perso	onal interview v	vith SMI	E 12 Nov 1	997, CSM	D. Schv	vab, HHC	C 1-5	2 AR Btn, N	CANG, F	t. Bragg	g, NC	
Comments	Origi	nal rule dealt w	ith M1.	Therefore	used sour	ce from	M1 syst	tem	rule ID 146.				
Change to Sour	ce?	Υ		Are 7	here Any	(2) Optio	ns? Y	7		Ar	y Chang	ge to Record?	Y

#### **IWEDA Subsystem Rules** ID# 21 Subsystem Name DAY PERISCOPE Ruie 1 # 135 Rule 2# 135 Delete Rule? N Old Color **New Color** Changed Color? N Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Ν Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Ν Changed Param. 2? Old Value 1 1000 New Value 1 1500 meters Υ Changed Value 1? Old Value 2 1 New Value 2 Yes Changed Value 2? Υ Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? N New Opt. 2 = Old Condensed Fog and Reduced Visibility New Condensed Low Visibility Changed Ν Impact Impact Condensed Impact? Old Full Impact Any occurrence of fog and visibility < 0.6 mile (1000 m) decreases the weapon sighting capability. New Full Impact Any occurrence of fog and visibility < 0.9 mile (1500 m) decreases the weapon sighting capability. Changed Full Impact Y **Old Source** (1st Cavalry Division, 1992); Personal interview with SME 12 Nov 1997, CSM D. Schwab, HHC 1-52 AR Btn, NCANG, Ft. Bragg, NC **New Source** Comments Original rule dealt with M1. Therefore used source from M1 system rule ID 146. Y Υ Are There Any (2) Options? Υ Change to Source? Any Change to Record? DAY PERISCOPE ID# 22 Rule 1 # 136 | Rule 2 # 136 Delete Rule? N Subsystem Name Changed Color? N Old Color **New Color** visibility New Param. 1 ID Visibility Changed Param. 1? N Parameter 1# 26 Old Param. 1 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? Ν Parameter 2 # 7 Old Param. 2 ID 1000 New Value 1 1500 meters Υ Old Value 1 Changed Value 1? Old Value 2 0 New Value 2 None Changed Value 2? Υ Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 > New Opt. 2 Changed Opt. 2? | N **Drizzle and Reduced Visibility Old Condensed New Condensed** Low Visibility Changed N Impact Condensed Impact? Impact Old Full Impact Any occurrence of drizzle and visibility < 0.6 mile (1000 m) decreases the weapon sighting capability. New Full Impact Any occurrence of drizzle and visibility < 0.9 mile (1500 m) decreases the weapon sighting capability. Changed Full Impact Y Old Source (1st Cavalry Division, 1992); Personal interview with SME 12 Nov 1997, CSM D. Schwab, HHC 1-52 AR Btn, NCANG, Ft. Bragg, NC **New Source**

Υ

Original rule dealt with M1. Therefore used source from M1 system rule ID 146.

Are There Any (2) Options?

Υ

Comments

Change to Source?

Any Change to Record?

Y

ID # 23 Sub	osystem Name	DAY PERI	SCOPE			Rule 1 #	137	Rule 2#	137	Delete Rule	? N
Old Color	1 New Color	1							Ch	anged Color?	N
Parameter 1 #	26 Old Param. 1 ID	visibility		New Pa	ıram. 1 l	D \	/isibilit	у	Chang	ged Param. 1'	? N
Parameter 2 #	14 Old Param. 2 ID	rain		New Pa	ram. 2 l	D	Rain		Chang	ged Param. 21	? N
Old Value 1	1000	New \	√alue 1		150	0 meters			Chang	ed Value 1?	Y
Old Value 2	0	New \	√alue 2			None			Chang	ed Value 2?	Y
Old Operator 1	< New Opt. 1	< Changed C	Opt. 1? [	N Old (	Opt. 2	> Nev	v Opt. 2	>	Ch	anged Opt. 2	? N
Old Condensed Impact	Precipitation and Rec		New Cond	densed		Rair	1		Change Conden	ed sed Impact?	Y
Old Full Impact	Any occurrence of rai	n and visibility < (	0.6 mile (	(1000 m)	decreas	ses the we	apon si	ighting o	apabili	ty.	
New Full Impact	Any occurrence of rai	n and visibility < (	0.9 mile (	(1500 m)	decreas	ses the we	apon si	ighting o	apabili	ty.	
Old Source	(1st Cavalry Division,	1992);							Chang	ed Full Impac	t Y
New Source	Personal interview wi	th SME 12 Nov 19	97, CSM	D. Schw	ab, HHC	1-52 AR	Btn, NC	ANG, Ft	. Bragg	, NC	
Comments	Original rule dealt wit	h M1. Therefore u	sed sour	ce from	M1 syst	em rule ID	146.	•			
Change to Source	ce? Y	Are Th	ere Any (	(2) Option	ns? Y	] .		Any	/ Chang	e to Record?	Y
	osystem Name  New Color	DAY PERI	SCOPE			Rule 1 #	138 F	Rule 2#	138	Delete Rule	
Old Color Parameter 1 #	New Color Old Param. 1 ID	visibility		Now Da	ram. 1 II		/isibility		_	ged Param. 1?	
_	17 Old Param. 2 ID	snow	-	] 1	ram. 2 II		Snow			jed Param. 23	<u> </u>
Old Value 1	1000		/alue 1	INCWIS		0 meters	311044		_	ed Value 1?	Y
Old Value 1	0		/alue 1			None			_	ed Value 2?	Y
Old Operator 1	< New Opt. 1	< Changed C	_	N Old C			/ Opt. 2	>		anged Opt. 2	
Old Condensed	Snow and Reduce	ed Visibility	New Cond		pt. 2	Snov			 Change	•	Y
Impact Old Full Impact	Any occurrence of sn		mpact : 0.6 mile	(1000 m	) decrea	ases the w	eapon				
New Full Impact	Any occurrence of sn	ow and visibility <	: 0.9 mile	(1500 m	) decre	ases the w	/eapon	sighting	capabi	lity.	
Old Source	(1st Cavalry Division,	1992);							Change	ed Full Impact	Y
New Source	Personal interview wit	th SME 12 Nov 19	97, CSM	D. Schw	ab, HHC	1-52 AR	Btn, NC	ANG, Ft	. Bragg	, NC	
Comments	Original rule dealt wit	h M1. Therefore u	sed sour	ce from	M1 syst	em rule ID	146.				
Change to Source	ce? Y	Are Th	ere Any (	(2) Option	ıs? Y	]		Any	Chang	e to Record?	Y

ID# 25 Sui													
	osystem	Name		FIRING :	SYSTEM			Rule	1 # 19	Rule 2	# C	Delete Rule?	Υ
Old Color	1	New Color						_	· · · · · · · · · · · · · · · · · · ·	,	Chan	nged Color?	
Parameter 1 #	<b>22</b> O	ld Param. 1 ID		temperatu	ire	New Pa	ıram. 1	ID	<del></del>		Change	d Param. 1?	
Parameter 2 #	<u> </u>	ld Param. 2 ID				New Pa	iram. 2	םו נ			Change	d Param. 2?	
Old Value 1		85		New	/ Value 1	·					 Changed	Value 1?	
Old Value 2				New	Value 2						Changed	Value 2?	
Old Operator 1	>=	New Opt. 1		Changed	Opt. 1?	Old (	Opt. 2		New Opt.	2	Char	nged Opt. 2?	
Old Condensed Impact		Ho	t		New Condimpact	densed					Changed Condense	ed Impact?	
Old Full Impact	Tempe	eratures >= 85	F can	cause the f	iring syste	em to fai	l if the	air-co	nditioning	fails.			
New Full Impact	t												
Old Source	(1st Ca	valry Division	1992	١٠							Changed	Full Impact	
New Source	Delete	Rule: No long	ger vali	d. USAFAS	POC SFC	Saeda,	3 Dec	1997					
Comments													
Change to Sour	ce?	Y		Are T	There Any	(2) Optio	ns?	N		Α	ny Change t	to Record?	Y
-													
ID# 26 Sul	bsystem	Name		GENE	RATOR			Rule	e 1 # <b>1</b>	Rule 2	<b>#</b>	Delete Rule?	Υ
ID # 26 Sul	bsystem 1	Name New Color		GENE	RATOR			Rule	e 1 # <b>1</b>	Rule 2	L	Delete Rule?	Y
	1	,		GENE!		New Pa	aram. 1	J 	1# 1	Rule 2	Char		Y
Old Color	1 8 0	New Color				New Pa		םו ו	1# 1	Rule 2	Char	nged Color?	Y
Old Color Parameter 1 #	1 8 0	New Color		elevation		1		םו ו	1# 1	Rule 2	Char Changed	nged Color? d Param. 1?	Y
Old Color Parameter 1 # Parameter 2 #	1 8 0	New Color ld Param. 1 ID ld Param. 2 ID		elevation New	n	1		םו ו	1 # 1	Rule 2	Changed Changed	nged Color? d Param. 1? d Param. 2?	<b>Y</b>
Old Color Parameter 1 # Parameter 2 # Old Value 1	1 8 0	New Color ld Param. 1 ID ld Param. 2 ID		elevation New	v Value 1	New Pa		םו ו	1 # 1 New Opt.		Changed Changed Changed	nged Color? d Param. 1? d Param. 2? l Value 1?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	1 8 0	New Color ld Param. 1 ID ld Param. 2 ID 6000		elevation New New	v Value 1	New Pa	aram. 2	םו ו			Charged Changed Changed Changed Charged Charged	nged Color? d Param. 1? d Param. 2? l Value 1? l Value 2?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	1 8 0	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1	tion	elevation New New Changed	v Value 1 v Value 2 Opt. 1?  New Con	New Pa	opt. 2	I ID	New Opt.		Charged Changed Changed Changed Charged Charged	nged Color? d Param. 1? d Param. 2? l Value 1? l Value 2? nged Opt. 2?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	1 8 0 0 >= Opera	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1	tion	elevation New New Changed	v Value 1 v Value 2 Opt. 1?  New Con	New Pa	opt. 2	I ID	New Opt.		Charged Changed Changed Changed Charged Charged	nged Color? d Param. 1? d Param. 2? l Value 1? l Value 2? nged Opt. 2?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	1 8 0 0 >= Opera	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1	tion	elevation New New Changed	v Value 1 v Value 2 Opt. 1?  New Con	New Pa	opt. 2	I ID	New Opt.		Charged Changed Changed Changed Charged Charged	nged Color? d Param. 1? d Param. 2? l Value 1? l Value 2? nged Opt. 2?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	1 8 0 0 >= Opera	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1	tion	elevation New New Changed	v Value 1 v Value 2 Opt. 1?  New Con	New Pa	opt. 2	I ID	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? l Value 1? l Value 2? nged Opt. 2?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	1 8 0 0 0 >=  Opera	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1	tion	elevation New New Changed	v Value 1 v Value 2 Opt. 1?  New Con	New Pa	opt. 2	I ID	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? I Value 1? I Value 2? nged Opt. 2? ed Impact?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	1 8 0 0 0 >= Opera	New Color Id Param. 1 ID Id Param. 2 ID 6000  New Opt. 1  Elevation	tion ons >=	elevation  New  New  Changed  6000 ft red	n / Value 1 / Value 2 Opt. 1? [ New Con Impact uces max	New Pa	Opt. 2	utput b	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? I Value 1? I Value 2? nged Opt. 2? ed Impact?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	1 8 0 0 0 >= Opera	New Color  Id Param. 1 ID  6000  New Opt. 1  Elevations at elevations at elevations at elevations at elevations and the second and the second at elevations	tion ons >=	elevation  New  New  Changed  6000 ft red	n / Value 1 / Value 2 Opt. 1? [ New Con Impact uces max	New Pa	Opt. 2	utput b	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? I Value 1? I Value 2? nged Opt. 2? ed Impact?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source New Source	1 8 0 0 0 >= Opera	New Color  Id Param. 1 ID  6000  New Opt. 1  Elevations at elevations at elevations at elevations at elevations and the second and the second at elevations	tion ons >=	elevation  New  New  Changed  6000 ft red	n / Value 1 / Value 2 Opt. 1? [ New Con Impact uces max	New Pa	Opt. 2	utput b	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? I Value 1? I Value 2? nged Opt. 2? ed Impact?	
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	1 8 0 0 0 >= Opera	New Color  Id Param. 1 ID  6000  New Opt. 1  Elevations at elevations at elevations at elevations at elevations and the second and the second at elevations	tion ons >=	elevation  New  New  Changed  6000 ft red	n / Value 1 / Value 2 Opt. 1? [ New Con Impact uces max	New Pa	Opt. 2	utput b	New Opt.		Charged Changed Changed Changed Charged Charged Charged	nged Color? d Param. 1? d Param. 2? I Value 1? I Value 2? nged Opt. 2? ed Impact?	

#### **IWEDA Subsystem Rules** ID# 27 Subsystem Name **GENERATOR** Rule 1# Rule 2# Delete Rule? N Old Color 2 **New Color** Changed Color? Υ Old Param. 1 ID elevation Parameter 1 # 8 New Param. 1 ID Elevation Changed Param. 1? Ν Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? 8000 8000 ft. Old Value 1 New Value 1 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Elevation New Condensed **High Elevation** Changed Condensed Impact? Impact Impact Old Full Impact Operating at elevations >= 8000 ft reduces maximum power output by 10%. New Full Impact Operating at elevations >= 8000 feet MSL reduces the kilowatt rating by about 10% Changed Full Impact | Y Old Source (1st Cavairy Division, 1992); TM 5-6115-465-12, Para 2-20, Jan 1984 **New Source** Comments Change to Source? Υ Are There Any (2) Options? N Any Change to Record? **GENERATOR** 7 Rule 2# Delete Rule? N ID# 28 Subsystem Name Rule 1# 1 Changed Color? Old Color **New Color** Parameter 1 # Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 1? Changed Param. 2? Old Param. 2 ID New Param. 2 ID Parameter 2 # Old Value 1 -25 New Value 1 - 25 F Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Cold **Extreme Cold** Old Condensed New Condensed Changed Condensed Impact? Impact Impact Old Full Impact | Temperatures <= -25 F exceed the operating limits unless arctic kits are installed. New Full Impact Temperatures <= -25 F exceed the operating limits unless arctic kits are installed. Changed Full Impact N Old Source (1st Cavalry Division, 1992); **New Source** TM 5-6115-465-12, Para 2-15, Jan 1984 This assumes that arctic kits are available and just need to be installed. Comments Υ Change to Source? Υ Any Change to Record? Are There Any (2) Options? N

		IWEDA Sul	osystem Ru	ıles	·		
ID# 29 Sub	osystem Name	GENERATOR		Rule 1 # 17	Rule 2#	Delete Rule?	N
Old Color	2 New Color	2				Changed Color?	N
Parameter 1#	22 Old Param. 1 ID	temperature	New Param. 1 IE	Temperat	ure	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID			Changed Param. 2?	
Old Value 1	120	New Value 1	1	125 F		Changed Value 1?	Υ
Old Value 2		New Value 2				Changed Value 2?	
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	Old Opt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Hot	New Cond Impact	lensed	Extreme Heat		Changed Condensed Impact?	Y
Old Full Impact	Temperatures >= 120 F ex	ceed the operating lim	its.				
New Full Impact	Temperatures >= 125 F ex	ceed the operating lim	nits.				
						Changed Full Impact	Y
Old Source	(1st Cavalry Division, 199	2);					
New Source	TM 5-6115-465-12, Para 2-	16, Jan 1984					
Comments							
Change to Sour	ce? Y	Are There Any (	(2) Options? N		An	y Change to Record?	Υ
ID # 30 Sul	bsystem Name GRO	DUND FORWARD OBS	ERVER	Rule 1 # 39	Rule 2#	Delete Rule?	N
Old Color	2 New Color	2				Changed Color?	N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 II	Visibilit	y	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 II	)		Changed Param. 2?	
Old Value 1	200	New Value 1	200	meters		Changed Value 1?	N
Old Value 2		New Value 2				Changed Value 2?	
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	2	Changed Opt. 2?	· [
Old Condensed Impact	Reduced Visibil	ity New Cond Impact	densed V	ery Low Visibilit	y	Changed Condensed Impact?	Y
Old Full Impact	Visibility <= 0.1 mile (200	m) makes it very diffic	ult to safely acq	uire and identify	targets.		
New Full Impac	t Visibility <= 0.1 mile (200	m) makes it very diffic	ult to safely acq	uire and identify	targets.		
						Changed Full Impact	N
Old Source	(1st Cavalry Division, 199	2);					
New Source	FM 90-22, Chapter 1, Sec FM 34-81-1, Pg. D-4, Dec		," Para "Visibility	y," Jan 1991			
Comments							
Change to Sour	rce? Y	Are There Any	(2) Options? N	1	An	y Change to Record?	Y

Change to Source? Y

			- <del></del>		
ID# 31 Sub	osystem Name GR	OUND FORWARD OBS	SERVER	Rule 1 # 40	Rule 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 l	D Visibilit	y Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 l	D	Changed Param. 2?
Old Value 1	500	New Value 1	50	0 meters	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Reduced Visibi	lity New Cor Impact	ndensed \	ery Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility <= 0.3 mile (500	m) makes it difficult t	o safely acquire	and identify targe	ets.
New Full Impact	Visibility <= 0.3 mile (500	m) makes it difficult t	o safely acquire	and identify targe	its.
Old Source	(1st Cavalry Division, 199	92);			Changed Full Impact N
New Source	FM 90-22, Chapter 1, "Ad FM 34-81-1, Pg. D-4, Dec	•	"Visibility," Jan ′	1991	
Comments					
Change to Source	pe? Y	Are There Any	(2) Options?		Any Change to Record?
ID # 32 Sub	osystem Name	HELLFIRE A-AIR		Rule 1 # 55	Rule 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 I	D Freezing F	
Parameter 2 #	Old Param. 2 ID		_ │ New Param. 2 I		Changed Param. 2?
Old Value 1	1	New Value 1	<b>-</b>	None	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Freezing Rain	n New Cor	ndensed	Freezing Rain	Changed Condensed Impact?
•	Freezing rain > light inter		issile to the rail.		
New Full Impact	Freezing rain > none may	cause arming proble	ms		
Old Source	(1st Cavalry Division, 199	92);			Changed Full Impact Y
New Source	TM 55-1520-238-10, Para	8-16, May 1994			
Comments	Also see TM 1-1520-238-1	I0, Sep 1996			
Change to Source	ce? Y	Are There Any	(2) Options? N		Any Change to Record? Y

#### **IWEDA Subsystem Rules** ID# **HELLFIRE A-AIR** 33 Subsystem Name Rule 1# 77 Rule 2# Delete Rule? Ν Old Color **New Color** Changed Color? Ν N Parameter 1 # 12 Old Param. 1 ID icingintensity New Param. 1 ID lcingIntensity Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 1 New Value 1 None Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Old Condensed Icing Aloft **New Condensed Icing Aloft** Changed Condensed Impact? Impact Impact Old Full Impact Upper-level icing > light intensity may freeze the missile to the rail. New Full Impact Upper-level icing > none may cause arming problems if the aricraft is flying between (~icing base) & (~icing tops) feet AGL Changed Full Impact Y Old Source (1st Cavalry Division, 1992); TM 55-1520-238-10, Para 8-16, May 1994 **New Source** Also see TM 1-1520-238-10, Sep 1996 Comments Y Are There Any (2) Options? N Any Change to Record? Change to Source? **HELLFIRE A-AIR** Rule 1 # 104 | Rule 2 # 104 Delete Ruie? N ID# 34 Subsystem Name N Changed Color? 2 **New Color** Old Color Parameter 1 # 4 Old Param. 1 ID cloudcover New Param. 1 ID **Cloud Cover** Changed Param. 1? N Old Param. 2 ID cloudbase New Param. 2 ID **Cloud Base** Changed Param. 2? N Parameter 2 # Y 0 New Value 1 None Changed Value 1? Old Value 1 New Value 2 1000 ft. Changed Value 2? N Old Value 2 1000 Changed Opt. 2? N Changed Opt. 1? | N | Old Opt. 2 Old Operator 1 New Opt. 1 < New Opt. 2 Very Low Clouds Changed **Old Condensed** Clouds **New Condensed** Υ Impact Impact Condensed Impact? Old Full Impact Cloud bases < 1000 ft make it very difficult for the missile to maintain acquisition with laser spot on the target. New Full Impact Cloud bases < 1000 ft make it very difficult for the missile to maintain acquisition with laser spot on the target. Changed Full Impact N Old Source (1st Cavalry Division, 1992); Personal interview with SME, 14 Nov 1997. CW4 Ronald C. Moring, Regiment Master Gunner, 229 Attack **New Source** Helicopter Regiment, Ft. Bragg, NC and Aviation School Student Hanout 15-6443-6.

Y

Comments

Change to Source?

Are There Any (2) Options?

Y

Any Change to Record?

Y

·							-
ID # 35 Sul	bsystem Name	HELLFIRE A-AIR		Rule 1 # 105 F	Rule 2 # 105	Delete Rule?	N
Old Color	1 New Color	1			Ch	anged Color?	N
Parameter 1 #	4 Old Param. 1 ID	cloudcover	New Param. 1 I	D Cloud Cov	ver Chang	ged Param. 1?	N
Parameter 2 #	3 Old Param. 2 ID	cioudbase	New Param. 2 I	D Cloud Ba	se Chang	ged Param. 2?	N
Old Value 1	0	New Value 1		None	Change	ed Value 1?	Y
Old Value 2	2000	New Value 2	2	000 ft.	Change	ed Value 2?	N
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	< New Opt. 2	< Ch	anged Opt. 2?	N
Old Condensed Impact	Clouds	New Con Impact	densed	Low Clouds	Change Conden	d sed Impact?	Υ
Old Full Impact	Cloud bases < 2000 ft ma	ke it difficult for the m	issile to maintai	n acquisition with	laser spot on the	he target.	
New Full Impact	Cloud bases < 2000 ft ma	ke it difficult for the m	issile to maintai	າ acquisition with	laser spot on ti	he target.	
Old Source	(1st Cavalry Division, 199	2);			Change	ed Full Impact	N
New Source	Personal interview with S Helicopter Regiment, Ft. I					Attack	
Comments				-			
Change to Sour	ce? Y	Are There Any	(2) Options? Y		Any Change	e to Record?	Y
	osystem Name  1 New Color	HELLFIRE C-AIR		Rule 1 # 55 R	Rule 2 #	_	N N
Old Color Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 II	Freezing Ra			N
Parameter 2 #	Old Param. 2 ID	reezitigratii	New Param. 1 II			ed Param. 2?	-
Old Value 1	1	New Value 1	J	None		<u></u>	Υ
Old Value 2		New Value 2				ed Value 1:	<u>-</u>
Old Operator 1	> New Opt. 1 >	<u>,                                     </u>	N Old Opt. 2	New Opt. 2		anged Opt. 2?	ᅱ
Old Condensed	Freezing Rain	New Con-		Freezing Rain	Change	q	N
Impact	Freezing rain > light inten	Impact	esile to the rail		Condens	sed Impact?	$\overline{}$
Old I dil impact	r reezing rain > nght inten	sity may neeze the im	some to the ran.			*4	
New Full Impact	Freezing rain > none may	cause arming probler	ns				
0110	(4.4.0	<u> </u>			Change	ed Full Impact	Y
Old Source	(1st Cavalry Division, 199	<b>2)</b> ;					
New Source	TM 55-1520-238-10, Para 8	8-16, May 1994					
Comments	Also see TM 1-1520-238-1	0, Sep 1996					
Change to Source	ce? Y	Are There Any	(2) Options? N		Any Change	e to Record?	Y

ID # 37 Sub	system N	ame		HELLFIR	RE C-AIR			Rule	1 # 77	Rule 2	2#	Delete Ru	e? N
Old Color	1	New Colo	•	1							-	Changed Colo	? N
Parameter 1 #	12 Old	Param. 1 ID		icingintens	ity	New Pa	ıram. 1 II	)	Icing Inte	nsity		Changed Param.	? N
Parameter 2 #	Old	Param. 2 ID				New Pa	ram. 2 II	סר				Changed Param.	??
Old Value 1		1		New	Value 1			None				Changed Value 1?	Y
Old Value 2				New	Value 2						(	Changed Value 2?	
Old Operator 1	> N	ew Opt. 1	>	Changed	Opt. 1?	N Old C	Opt. 2		New Opt.	2		Changed Opt.	2?
Old Condensed Impact		lcing /	Aloft		New Con Impact	densed		lci	ng Aloft		- 1	Changed Condensed Impact	N
Old Full Impact	Upper-le	vel icing >	light int	tensity may	freeze th	e missile	to the r	ail.					
New Full Impact	Upper lev tops) fee	-	none m	ay cause ar	rming pro	blems if	the airc	raft is	flying bet	ween (-		ng base) and (~ ic	
Old Source	(1st Cava	alry Divisio	n, 1992)	);							]	Changed Full Impa	ct Y
New Source	TM 55-15	20-238-10,	Рага 8-	16, <b>M</b> ay 199	94							<u></u>	
Comments	Also see	TM 1-1520	-238-10	, Sep 1996							-		
Change to Sour	ce? Y			Are T	here Any	(2) Option	ns? N	1	·		Any	Change to Record	? Y
										, .			
ID# 38 Sub	osystem N	ame		UELLEIG					4 4 5 5 5				
Old Color	2	<del></del>		HELLEIP	RE C-AIR			Rule	1# 95	Rule 2	2#	95 Delete Ru	e? N
Parameter 1 #		New Colo	r	2	RE C-AIR			Rule	1# 95	Rule 2	2#[	95 Delete Rui Changed Colo	<u></u>
	4 Old	New Colo Param. 1 IC				New Pa	ıram. 1 II		Cloud C		2#[		? N
Parameter 2 #			)	2	er	_	ıram. 1 li ıram. 2 li	D		over	2#[	Changed Colo	? N I? N
Parameter 2 # Old Value 1		Param. 1 IC	)	cloudcove cloudbas	er	_	ıram. 2 II	D	Cloud C	over		Changed Colo	? N I? N
		Param. 1 IC Param. 2 IC	)	cloudcove cloudbas	er e	_	ıram. 2 li	D	Cloud C	over		Changed Colo Changed Param. Changed Param.	? N 1? N 2? N
Old Value 1	3 Old	Param. 1 ID Param. 2 ID	)	cloudcove cloudbas	er e Value 1	New Pa	ıram. 2 li	D D None	Cloud C	Base		Changed Colo Changed Param. Changed Param. Changed Value 1?	? N 1? N 2? N Y
Old Value 1 Old Value 2	3 Old	Param. 1 IC Param. 2 IC 0 500	>	cloudcove cloudbas · New New	er e Value 1	New Pa	oram. 2 ll	D None	Cloud C	Base	<= \( \)	Changed Colo Changed Param. Changed Param. Changed Value 1? Changed Value 2?	? N  ? N  ? N  Y  Y  Y
Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	3 Old	Param. 1 IC Param. 2 IC 0 500 ew Opt. 1 [ Clou	> lids	cloudcove cloudbas New New Changed	er Value 1 Value 2 Opt. 1? [ New Con	New Pa	Opt. 2	None 400 ft. <=	Cloud Co Cloud E New Opt.	Base	<= C	Changed Colo Changed Param. Changed Param. Changed Value 1? Changed Value 2? Changed Opt. Changed	? N 1? N 2? N Y Y Y 2? N
Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	3 Old  > N  Cloud ba	Param. 1 ID Param. 2 ID 0 500 ew Opt. 1 [ Cloudeses < 500 fr	> ids	cloudcove cloudbas New New Changed it very diffic	er Value 1 Value 2 Opt. 1? [ New Con Impact cult for th	New Pa	Opt. 2	None 100 ft. <= Very L	Cloud Co Cloud E New Opt. .ow Cloud	Base  2  s	<= C	Changed Colo Changed Param. Changed Param. Changed Value 1? Changed Value 2? Changed Opt. Changed Condensed Impact r spot on the targ	? N 1? N 2? N Y Y Y 2? N
Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	3 Old  > N  Cloud ba	Param. 1 ID Param. 2 ID 0 500 ew Opt. 1 [ Cloudeses < 500 fr	> aids	cloudcove cloudbas New New Changed it very diffice	er Value 1 Value 2 Opt. 1? [ New Con Impact cult for th	New Pa	Opt. 2	None 100 ft. <= Very L	Cloud Co Cloud E New Opt. .ow Cloud	Base  2  s	<= C	Changed Colo Changed Param. Changed Param. Changed Value 1? Changed Value 2? Changed Opt. Changed Condensed Impact r spot on the targ	? N !? N !? N Y Y Y Y Y Y
Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	> N Cloud bate Cloud B	Param. 1 ID Param. 2 ID 0 500 ew Opt. 1 [ Cloudeses < 500 feature = 500	> ids  ft make ft. make n, 1992 with SN	cloudcove cloudbas New New Changed it very diffice it very diffice	er Value 1 Value 2 Opt. 1? [ New Con Impact cult for the	New Pa  N Old C  densed  te missile  the missil	opt. 2	None 400 ft.  Very L  intain	Cloud Cond Ended Provided Prov	Base  2  S  S  S  S  S  S  S  S  S  S  S  S	<= C	Changed Colo Changed Param. Changed Value 1? Changed Value 2? Changed Opt. Changed Condensed Impact r spot on the target e target.	? N !? N !? N Y Y Y Y Y Y
Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	> N Cloud bate Cloud B	Param. 1 ID Param. 2 ID 0 500 ew Opt. 1 [ Cloudeses < 500 feature = 500	> ids  ft make ft. make n, 1992 with SN	cloudcove cloudbas New New Changed it very diffice it very diffice	er Value 1 Value 2 Opt. 1? [ New Con Impact cult for the	New Pa  N Old C  densed  te missile  the missil	opt. 2	None 400 ft.  Very L  intain	Cloud Cond Ended Provided Prov	Base  2  S  S  S  S  S  S  S  S  S  S  S  S	<= C	Changed Colo Changed Param. Changed Param. Changed Value 1? Changed Value 2? Changed Opt. Changed Condensed Impact r spot on the target e target. Changed Full Impa	? N !? N !? N Y Y Y Y Y Y

ID# 39 Su	bsystem Name	HELLFIRE C-AIR		Rule 1 # 96 R	ule 2 #	96	Delete Rule?	N
Old Color	1 New Color	1		<del></del>		Ch	anged Color?	N
Parameter 1 #	3 Old Param. 1 ID	cloudbase	New Param. 1 ID	Cloud Bas	e	Chang	ged Param. 1?	N
Parameter 2 #	4 Old Param. 2 ID	cloudcover	New Param. 2 ID	Cloud Cov	er	Chang	ged Param. 2?	N
Old Value 1	1500	New Value 1	1:	500 ft.		Change	ed Value 1?	N
Old Value 2	0	New Value 2	P	None		Change	ed Value 2?	Y
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1?	N Old Opt. 2	> New Opt. 2	>	Ch	anged Opt. 2?	N
Old Condensed Impact	Clouds	New Con Impact	densed	Low Clouds		Change Conden	d sed Impact?	Y
Old Full Impact	Cloud bases < 1500 ft ma	ke it difficult for the m	issile to maintain	acquisition with	laser sp	ot on t	he target.	
New Full Impac	Cloud bases < 1500 ft ma	ke it difficult for the m	issile to maintain	the lased spot or	the tar	get.		
Old Source	(1st Cavalry Division, 199	2);				Change	ed Full Impact	N
New Source	Personal interview with S Helicopter Regiment, Ft. I					ner, 229	Attack	
Comments								
Change to Sour	ce? Y	Are There Any	(2) Options? Y		Any	Chang	e to Record?	Y
L	osystem Name	HEMTT TRUCK		Rule 1 # 52 R	ule 2 #		Delete Rule?	
Old Color	1 New Color	1			ule 2 #	,	anged Color?	N
Old Color Parameter 1 #	1 New Color 14 Old Param. 1 ID		New Param. 1 ID	Rain	ule 2 #	Chang	anged Color? jed Param. 1?	
Old Color Parameter 1 # Parameter 2 #	1 New Color 14 Old Param. 1 ID Old Param. 2 ID	1 rain	New Param. 1 ID	Rain		Chang	anged Color? led Param. 1? led Param. 2?	N N
Old Color Parameter 1 # Parameter 2 # Old Value 1	1 New Color 14 Old Param. 1 ID	rain  New Value 1	New Param. 1 ID	Rain		Chang Chang Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1?	N
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	1 New Color 14 Old Param. 1 ID Old Param. 2 ID 1	rain  New Value 1  New Value 2	New Param. 1 ID New Param. 2 ID Mo	Rain		Change Change Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2?	N N Y
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	1 New Color 14 Old Param. 1 ID Old Param. 2 ID 1  New Opt. 1 >=	rain  New Value 1  New Value 2  Changed Opt. 1?	New Param. 1 ID New Param. 2 ID Mo Mo Y Old Opt. 2	Rain derate New Opt. 2		Change Change Change Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2?	N N Y
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	1 New Color 14 Old Param. 1 ID Old Param. 2 ID 1	rain  New Value 1  New Value 2	New Param. 1 ID New Param. 2 ID Mo Mo Y Old Opt. 2	Rain		Change Change Change Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2?	N N Y
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	1 New Color 14 Old Param. 1 ID Old Param. 2 ID 1  New Opt. 1 >=	rain  New Value 1 New Value 2 Changed Opt. 1? New Condimpact	New Param. 1 ID New Param. 2 ID Mo  Y Old Opt. 2  densed	Rain  derate  New Opt. 2  Rain		Change Change Change Change Change Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2? d sed Impact?	N N Y
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	1 New Color  14 Old Param. 1 ID  Old Param. 2 ID  1  New Opt. 1 >=  Precipitation  Moderate or greater rain of	rain  New Value 1  New Value 2  Changed Opt. 1?  New Contimpact  Impact  degrades the driver's v	New Param. 1 ID New Param. 2 ID Mo Y Old Opt. 2 densed	Rain  derate  New Opt. 2  Rain  nobility of the sys	ctem red	Change Change Change Change Change Conden	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2? d sed Impact?	N
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	1 New Color  14 Old Param. 1 ID  Old Param. 2 ID  1  New Opt. 1 >=  Precipitation  Moderate or greater rain of speed of the system.	rain  New Value 1  New Value 2  Changed Opt. 1?  New Condimpact  Impact  degrades the driver's value and the drive	New Param. 1 ID New Param. 2 ID Mo Y Old Opt. 2 densed	Rain  derate  New Opt. 2  Rain  nobility of the sys	stem red	Change Change Change Change Change Conden Jucing	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2? d sed Impact?	N
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	1 New Color  14 Old Param. 1 ID  Old Param. 2 ID  1  New Opt. 1 >=  Precipitation  Moderate or greater rain of speed of the system.  Moderate or greater rain of speed of the system.	rain  New Value 1  New Value 2  Changed Opt. 1?  New Condition Impact  degrades the driver's value degrades the driver's value 2);	New Param. 1 ID New Param. 2 ID Mo Y Old Opt. 2 densed risibility and the re	Rain  derate  New Opt. 2  Rain  nobility of the sys	stem red	Change Change Change Change Conden Jucing Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2? d sed Impact? the maximum the maximum	N N Y Y
Old Color Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source	1 New Color  14 Old Param. 1 ID  Old Param. 2 ID  1  New Opt. 1 >=  Precipitation  Moderate or greater rain of speed of the system.  Moderate or greater rain of speed of the system.  (1st Cavalry Division, 199  Interview with SSGT John	rain  New Value 1  New Value 2  Changed Opt. 1?  New Condition Impact  degrades the driver's value degrades the driver's value 2);	New Param. 1 ID New Param. 2 ID Mo Y Old Opt. 2 densed risibility and the re	Rain  derate  New Opt. 2  Rain  nobility of the sys	stem red	Change Change Change Change Conden Jucing Change	anged Color? ged Param. 1? ged Param. 2? ged Value 1? ged Value 2? anged Opt. 2? d sed Impact? the maximum the maximum	N N Y Y

		IWEDA Sul	osystem Rules	
ID# 41 Su	bsystem Name	HEMTT TRUCK	Rule 1 #	54 Rule 2 # Delete Rule? Y
Old Color	2 New Color			Changed Color?
Parameter 1 #	14 Old Param. 1 ID	rain	New Param. 1 ID	Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID	Changed Param. 2?
Old Value 1	2	New Value 1		Changed Value 1?
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	> New Opt. 1	Changed Opt. 1?	Old Opt. 2 New	Opt. 2 Changed Opt. 2?
Old Condensed Impact	Precipitation	New Cond Impact	densed	Changed Condensed Impact?
Old Full Impact	Heavy rain significantly d speed of the system.	egrades the driver's vi	sibility and the mobility of t	he system reducing the maximum
New Full Impac	at Transfer of the Property of			
Old Source	(1st Cavalry Division, 199	2).		Changed Full Impact
New Source	Delete Rule: Too restricti	ve, included in Rule ID	# 40 as an Amber condition	1.
Comments				
Change to Sou	rce?	Are There Any (	2) Options? N	Any Change to Record? Y
ID# 42 Su	ıbsystem Name	HEMTT TRUCK	Rule 1 #	58 Rule 2 # Delete Rule? Y
Old Color	2 New Color			Changed Color?
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1 ID	Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID	Changed Param. 2?
Old Value 1	3	New Value 1		Changed Value 1?
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	= New Opt. 1	Changed Opt. 1?	Old Opt. 2 New	Opt. 2 Changed Opt. 2?
Old Condensed Impact	Snow	New Cond Impact	densed	Changed Condensed Impact?
Old Full Impact	Heavy snow degrades the system.	driver's visibility and	the mobility of the system	reducing the maximum speed of the
New Full Impac	at			
	L			Changed Full Impact
Old Source	(1st Cavalry Division, 199	2);		
New Source	Delete Rule: Too restrict	ive, included in Rule II	# 43 as an Amber condition	
Comments				
Change to Sou	rce? Y	Are There Any	(2) Options? N	Any Change to Record? Y

#### **IWEDA Subsystem Rules** ID# 43 Subsystem Name **HEMTT TRUCK** Rule 1# 59 Rule 2# Delete Rule? Old Color **New Color** N Changed Color? Parameter 1 # 17 Old Param. 1 ID snow New Param. 1 ID Snow Changed Param. 1? N Old Param. 2 ID Parameter 2 # New Param. 2 ID Changed Param. 2? Old Value 1 New Value 1 Moderate Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? Y Old Opt. 2 Old Operator 1 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Condensed Snow **New Condensed** Snow Changed Impact Impact Condensed Impact? Old Full Impact Moderate or greater snow degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. New Full impact Moderate or greater snow degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. Changed Full Impact Y Old Source (1st Cavalry Division, 1992); **New Source** TM 9-2320-279-10-1, Para 2-36, Mar 1986 Comments Y Y N Change to Source? Are There Any (2) Options? Any Change to Record? ID# 44 Subsystem Name HET TRUCK TRACTOR Rule 1# 52 Rule 2# Delete Rule? N Old Color **New Color** Changed Color? Parameter 1 # Old Param. 1 ID rain New Param. 1 ID Rain Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param, 2 ID Changed Param. 2? Moderate Changed Value 1? Old Value 1 New Value 1 New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Y Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed** Changed Old Condensed Precipitation Rain Impact Condensed Impact? Impact Old Full Impact Moderate or greater rain degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. New Full Impact Moderate or greater rain degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. Changed Full Impact Y Old Source (1st Cavalry Division, 1992); New Source Interview with SSGT John Train, Operations SGT, TAD Motor Pool (Supports School House), Ft. Eustis, VA, Aug 1997

Are There Any (2) Options?

N

Y

Comments

Change to Source?

#### **IWEDA Subsystem Rules HET TRUCK TRACTOR** ID# 45 Subsystem Name Rule 1 # 54 Rule 2# Delete Rule? 2 **New Color** Changed Color? Old Color New Param. 1 ID Changed Param. 1? 14 Old Param. 1 ID rain Parameter 1 # Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 2 New Value 1 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Changed Opt. 1? Old Operator 1 New Opt. 1 Old Opt. 2 New Opt. 2 Changed Opt. 2? Precipitation New Condensed Old Condensed Changed Condensed Impact? Impact Impact Old Full Impact Heavy rain significantly degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. New Full Impact Changed Full Impact Old Source (1st Cavairy Division, 1992); Delete Rule: Too Restrictive. Included in Rule ID# 44 as an Amber condition **New Source** Comments Change to Source? Are There Any (2) Options? Any Change to Record? HET TRUCK TRACTOR 58 Delete Rule? ID# 46 Subsystem Name Rule 1# Rule 2# Changed Color? **New Color** Old Color New Param. 1 ID Changed Param. 1? Parameter 1 # 17 Old Param. 1 ID snow Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # New Value 1 Changed Value 1? Old Value 1 Changed Value 2? New Value 2 Old Value 2 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 **New Condensed** Changed Old Condensed Snow Condensed Impact? Impact Impact Old Full Impact Heavy snow significantly degrades the driver's visiblity and the mobility of the system reducing the maximum New Full Impact Changed Full Impact Old Source (1st Cavalry Division, 1992); Delete Rule: Too restrictive. Included in Rule ID# 47 as an Amber condition **New Source** Comments

N

Are There Any (2) Options?

Change to Source?

Any Change to Record?

Y

#### IWEDA Subsystem Rules ID# 47 HET TRUCK TRACTOR 59 Subsystem Name Rule 1# Rule 2# Delete Rule? Changed Color? Old Color **New Color** Ν New Param. 1 ID Parameter 1 # 17 Old Param. 1 ID snow Snow Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Moderate Old Value 1 New Value 1 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Y Old Opt. 2 Changed Opt. 2? New Opt. 2 Old Condensed **New Condensed** Snow Changed Snow Impact Impact Condensed Impact? Old Full Impact Moderate or greater snow degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. New Full Impact Moderate or greater snow degrades the driver's visibility and the mobility of the system reducing the maximum speed of the system. Changed Full Impact | N **Old Source** (1st Cavalry Division, 1992); **New Source** TM 9-2320-360-10, Para 2-25C, 26, Mar 1994 Comments Change to Source? Y Are There Any (2) Options? Ν Any Change to Record? LAUNCHER LOADER MODULE 7 Rule 2# Delete Rule? ID# 48 Subsystem Name Rule 1# Changed Color? Old Color New Color N Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 1? Parameter 1 # New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID Old Value 1 -25 New Value 1 - 25 F Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 **Extreme Cold** Old Condensed Cold **New Condensed** Changed Condensed Impact? Impact Impact Old Full Impact Temperature <= -25 F are below the operational limits of the Launcher Loader Module. New Full Impact Temperature <= -25 F are below the operational limits of the Launcher Loader Module.

Υ

(1st Cavalry Division, 1992);

Rule validated by USAFAS, POC SFC Garrett, 3 Dec 1997

Old Source

**New Source** 

Comments

Change to Source?

N

Are There Any (2) Options?

Any Change to Record?

Υ

Changed Full Impact N

ID# 49 Sub	system Name LA	UNCHER LOADER MO	<b>DULE</b> Ru	ile 1 # <b>54</b> Rule	e 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	14 Old Param. 1 ID	rain	New Param. 1 ID	Rain	Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2? N
Old Value 1	2	New Value 1	Mode	rate	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Precipitation	New Cond Impact	densed   H	łeavy Rain	Changed Condensed Impact?
Old Full Impact	Rain > moderate intensity	makes operating the	Launcher Loader M	odule difficult an	d degrades its performance.
New Full Impact	Rain > moderate intensity	makes operating the	Launcher Loader M	odule difficult an	d degrades its performance.
Old Source	(1st Cavalry Division, 199	2);			Changed Full Impact N
New Source	Rule validated by USAFA	S, POC SFC Garrett, 3	Dec 1997		
Comments					·
Change to Source	ce? Y	Are There Any	(2) Options? N		Any Change to Record? Y
ID# 50 Sub	osystem Name LA	UNCHER LOADER MO	DULE R	ıle 1 # 55 Rui	e 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 ID	Freezing Rair	
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2? N
Old Value 1	1	New Value 1	Lig	ht	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Freezing Rain	New Condimpact	densed Fr	eezing Rain	Changed Condensed Impact?
Old Full Impact	Freezing rain > light intenperformance.	sity makes operating	the Launcher Loade	er Module difficul	t and degrades its
New Full Impact	Freezing rain > light intenperformance.	sity makes operating	the Launcher Loade	er Module difficul	
New Full Impact	Freezing rain > light inter		the Launcher Loade	er Module difficul	t and degrades its  Changed Full Impact N
·	Freezing rain > light intenperformance.	2);		er Module difficul	
Old Source	Freezing rain > light interperformance.  (1st Cavalry Division, 199	2);		er Module difficul	

ID # 51 Sul	osystem Name LA	UNCHER LOADER MO	DDULE F	Rule 1 # 58 Rul	e 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1 ID	Snow	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	3	New Value 1	Mod	lerate	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	= New Opt. 1 >	Changed Opt. 1?	Y Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Snow	New Con Impact	densed	Heavy Snow	Changed Condensed Impact?
Old Full Impact	Snow > moderate intensit	y makes operating the	E Launcher Loader	Module difficult a	nd degrades its performance.
New Full Impact	Snow > moderate intensit	y makes operating the	Launcher Loader	Module difficult a	nd degrades its performance.
Old Source	(1st Cavalry Division, 199	2);			Changed Full Impact N
New Source	Rule validated by USAFA	S, POC SFC Garrett, 3	Dec 1997		
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options? N		Any Change to Record? Y
ID# <b>52</b> Sub	osystem Name LA	UNCHER LOADER MO	DULE R	tule 1 # 62 Rule	e 2 # Delete Rule? N
Old Color	1 New Color	1		L	Changed Color? N
Parameter 1 #	1 Old Param. 1 ID	blowingsand	New Param. 1 ID	Blowing Sand	
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	1	New Value 1	Y	es	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	= New Opt. 1 =	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Blowing Sand	New Con-	densed B	Blowing Sand	Changed Condensed Impact?
Old Full Impact	Any occurrence of blowin operational time of the La			red maintenance a	and reduces the amount of
New Full Impact	_ •	g sand increases the	frequency of requi	red maintenance a	and reduces the amount of
0110	[4.0.1.0]				Changed Full Impact N
Old Source	(1st Cavalry Division, 199	<b>4)</b> ,			
New Source	Rule validated by USAFAS	S, POC SFC Garrett, 3	Dec 1997		
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options? N		Any Change to Record?

ID # 53 Sub	system Name	M109 MUNITIONS	Ru	ile 1 # 12 Rule	2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	-40	New Value 1	- 40	F	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1 [	<= New Opt. 1	<= Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Cold	New Con Impact	densed Ex	xtreme Cold	Changed Condensed Impact?
Old Full Impact	Temperatures <= -40 F	decrease the safe firing	range.		
New Full Impact	Temperatures <= -40 F	decrease the safe firing	range.		
Old Source	(1st Cavalry Division,	1992);			Changed Full Impact N
New Source	TM 43-0001-28, Page 3	3-78, Jul 1987			
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options? N		Any Change to Record? Y
	osystem Name	M109 MUNITIONS	Ru	ıle 1 # 21 Rule	
Old Color	1 New Color	1	]		Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	NoValue 4	New Param. 2 ID		Changed Param. 2?
Old Value 1	125	New Value 1	125	, r	Changed Value 1? N
Old Value 2		New Value 2	N OH OH O		Changed Value 2?
Old Operator 1	>= New Opt. 1		N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Hot	New Cor Impact	idensed E	xtreme Heat	Changed Condensed Impact?
Old Full Impact	Temperatures >= 125	F change the safe firing r	ange and can cause	breakdown of the	propellants.
New Full Impact	Temperatures >= 125	F change the safe firing r	ange and can cause	breakdown of the	propellants.
					Changed Full Impact N
Old Source	(1st Cavalry Division,	1992);			
New Source	TM 43-0001-28, Page	3-78, Jul 1987			
Comments					
Change to Sour	rce? Y	Are There Any	(2) Options? N		Any Change to Record?

ID# 55 Sul	osystem Name	MAINTENANCE FUNCT	TION	Rule	e 1 # 9 Ru	ile 2 # Delete Rule? N	V
Old Color	1 New Color	1				Changed Color?	1
Parameter 1 #	22 Old Param. 1 ID	temperature	New Paran	n. 1 ID	Temperature	e Changed Param. 1?	1
Parameter 2 #	Old Param. 2 ID		New Paran	n. 2 ID 🗍		Changed Param. 2?	=
Old Value 1	-20	New Value 1		- 20	=	Changed Value 1?	1
Old Value 2		New Value 2				Changed Value 2?	_
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1?	N Old Opt.	2	New Opt. 2	Changed Opt. 2?	=
Old Condensed Impact	Cold	New Con Impact	densed	ext	reme Cloid	Changed Condensed Impact?	7
Old Full Impact	Temperature < -20 F caus	e the maintenance fur	oction to tak	e five tim	es longer.		
New Full Impact	Temperature < - 20 F caus	se the maintenance fu	nction to tal	e five tim	ies longer.		
Old Source	(1st Cavalry Division, 199	2);				Changed Full Impact N	1
New Source	FM 9-207, Page 1-5, Aug 1	1989					
Comments				-			7
		W.F.					
ID # 56 Sub	osystem Name	MAVERICK		Rule	1 # <b>35</b> Rui	ie 2 # Delete Rule? Y	<u></u>
Old Color	2 New Color		_			Changed Color?	
Parameter 1 #	26 Old Param. 1 ID	visibility	New Paran	ı. 1 ID		Changed Param. 1?	_
Parameter 2 #	Old Param. 2 ID		New Paran	ı. 2 ID		Changed Param. 2?	
Old Value 1	3200	New Value 1				Changed Value 1?	
Old Value 2		New Value 2				Changed Value 2?	_
Old Operator 1	<= New Opt. 1	Changed Opt. 1?	Old Opt.	2	New Opt. 2	Changed Opt. 2?	
Old Condensed Impact	Reduced Visibil	ity New Con- Impact	densed			Changed Condensed Impact?	
Old Full Impact	Visibility < 2 miles (3200 r Maverick system to identi			or the pilo	ot to maneuver	the aircraft and then use the	
New Full Impact							
Old Source	(1st Cavalry Division, 199	2);				Changed Full Impact	
New Source	Delete Rule: No reference alternative solution.		s condition.	Pilots sa	y it is a matter	of searching out an	
Comments							
Change to Sour	ce? Y	Are There Any	(2) Ontions?	N		Any Change to Record? Y	$\neg$

ID # 57 0						
ID# 57 Sub	system Name	MAVERICK		Rule 1 # 48 Rui	le 2 # Delete Rule?	N
Old Color	1 New Color	1		<u></u>	Changed Color?	N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 II	Visibility	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 II	<b>D</b>	Changed Param. 2?	
Old Value 1	4800	New Value 1	480	0 meters	Changed Value 1?	N
Old Value 2		New Value 2			Changed Value 2?	
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?	
Old Condensed Impact	Reduced Visibi	lity New Con-	densed	Low Visibility	Changed Condensed Impact?	Y
Old Full Impact	Visibility < 3 miles (4800 system to identify and lo	· • ·	r the pilot to mar	neuver the aircraft a	nd then use the Maverick	
New Full Impact	Visibility < 3 miles (4800 system to identify and lo		r the pilot to mar	neuver the aircraft a	nd then use the Maverick	
Old Source	(1st Cavalry Division, 199	92);			Changed Full Impact	N
New Source	AFI 11-214, Para 6.3.1, Fe	eb 1997				
Comments						
Change to Source	ce? Y	Are There Any	(2) Options? N		Any Change to Record?	Y
ID # 58 Sub	and the state of t					
Old Color	osystem name:	MAVERICK		Rule 1 # 103 Rul	le 2 # 103 Delete Rule?	N
	osystem Name  1 New Color	MAVERICK 1		Rule 1 # 103 Rul	يا لسييا	=
Parameter 1 #			New Param. 1 II		Changed Color?	N N
	1 New Color	1	New Param. 1 II	Cloud Cover	Changed Color? Changed Param. 1?	N
Parameter 1 #	1 New Color 4 Old Param. 1 ID	1 cloudcover	New Param. 2 II	Cloud Cover	Changed Color?  r Changed Param. 1?  Changed Param. 2?	N N
Parameter 1 # Parameter 2 #	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID	1 cloudcover cloudbase	New Param. 2 II	Cloud Cover	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?	N N N
Parameter 1 # Parameter 2 # Old Value 1	New Color Old Param. 1 ID Old Param. 2 ID O	cloudcover cloudbase New Value 1 New Value 2	New Param. 2 II	Cloud Cover	Changed Color?  T Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?	N N N Y
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2	New Color  Old Param. 1 ID  Old Param. 2 ID  0  3000	cloudcover cloudbase New Value 1 New Value 2	New Param. 2 II	Cloud Cover Cloud Base None	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?	N N Y Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID 0 3000 > New Opt. 1 > Clouds	cloudcover cloudbase  New Value 1 New Value 2  Changed Opt. 1?  New Conlimpact	New Param. 2 II  2  N Old Opt. 2  densed	Cloud Cover Cloud Base None 500 ft. New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?  Changed	N N Y Y N
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID 0 3000 > New Opt. 1 > Clouds Cloud bases < 3000 ft ma	cloudcover cloudbase  New Value 1 New Value 2 Changed Opt. 1? New Conlimpact ake it difficult for the m	New Param. 2 II  2 N Old Opt. 2 densed issile to maintain	Cloud Cover Cloud Base None 500 ft. New Opt. 2 Low Clouds n a cloud free flight	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?  Changed  Condensed Impact?  path and therefore can miss	N N Y Y N
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID 0 3000 > New Opt. 1 > Clouds Cloud bases < 3000 ft mathe target.	cloudcover cloudbase  New Value 1 New Value 2 Changed Opt. 1? New Conlimpact Impact ake it difficult for the make it diffi	New Param. 2 II  2 N Old Opt. 2 densed issile to maintain	Cloud Cover Cloud Base None 500 ft. New Opt. 2 Low Clouds n a cloud free flight	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?  Changed  Condensed Impact?  path and therefore can miss	N N Y Y N
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID 0 3000 > New Opt. 1 > Clouds Cloud bases < 3000 ft mathe target.	cloudcover cloudbase  New Value 1 New Value 2 Changed Opt. 1? New Conlimpact ake it difficult for the make it difficult fo	New Param. 2 II  2 N Old Opt. 2  densed issile to maintain	Cloud Cover Cloud Base None 500 ft. New Opt. 2 Low Clouds n a cloud free flight	Changed Color?  T Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?  Changed Condensed Impact?  path and therefore can miss	N N Y Y N
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact	1 New Color 4 Old Param. 1 ID 3 Old Param. 2 ID 0 3000 > New Opt. 1 > Clouds Cloud bases < 3000 ft mathe target. Cloud bases < 2500 ft. m	cloudcover cloudbase  New Value 1 New Value 2 Changed Opt. 1? New Conlimpact ake it difficult for the make it difficult fo	New Param. 2 II  2 N Old Opt. 2  densed issile to maintain	Cloud Cover Cloud Base None 500 ft. New Opt. 2 Low Clouds n a cloud free flight	Changed Color?  T Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2?  Changed Condensed Impact?  path and therefore can miss	N N Y Y N

ID# <b>59</b> Sub	osystem Name	MAVERICK		Rule 1 # 104 R	ule 2 # 10	04 Delete Rule?	? N
Old Color	2 New Color	2		-	<u></u>	Changed Color?	N
Parameter 1 #	4 Old Param. 1 ID	cloudcover	New Param. 1 ID	Cloud Cove	er C	hanged Param. 1?	N
Parameter 2 #	3 Old Param. 2 ID	cloudbase	New Param. 2 ID	Cloud Bas	ie C	hanged Param. 2?	N
Old Value 1	0	New Value 1		lone	Cr	hanged Value 1?	N
Old Value 2	1000	New Value 2	13	300 ft.	Cr	hanged Value 2?	Y
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	< New Opt. 2	<	Changed Opt. 23	? N
Old Condensed Impact	Clouds	New Cond Impact	densed	Low Clouds	I	anged ndensed Impact?	Y
Old Full Impact	Cloud bases < 1000 ft ma miss the target.	ike it very difficult for t	he missile to mai	ntain a cloud free	flight path	h and therefore ca	ın
New Full impact	Cloud bases < 1300 ft. ma	ake it very difficult for I	missile to mainta	in cloud free fligh			
Old Source	(1st Cavalry Division, 199	92);			Ch	nanged Full Impact	Y
New Source	T.O. 1-1M-34, Page 1-95,	96, Figure 1-60, May 19	91				
Comments							
Change to Sour	ce? Y	Are There Any (	(2) Options? Y		Anv Cl	hange to Record?	Y
ID# <b>60</b> Sub	osystem Name	MLQ-34 ANTENNA		Rule 1 # 32 R	ule 2 #	Delete Rule?	? N
Old Color	2 New Color	2				Changed Color?	N
Parameter 1 #	23 Old Param. 1 ID	thunderstorm	New Param. 1 ID	Thundersto	rm C	hanged Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		C	hanged Param. 2?	
Old Value 1	1	New Value 1		yes	Ch	nanged Value 1?	Y
Old Value 2		New Value 2			Ch	nanged Value 2?	
Old Operator 1	= New Opt. 1 =	Changed Opt. 1?	N Old Opt. 2	New Opt. 2		Changed Opt. 2?	<u>'</u>
Old Condensed Impact	Thunderstorn	n New Cond Impact	densed	Thunderstorm		anged ndensed Impact?	N
Old Full Impact	Any occurrence of thund must be stowed during a		ons, system perf	ormance, and pre	cludes ma	st erection. Anter	nna
New Full Impact	Any occurrence of thund must be stowed during a	ersotrms affect operati storm.	ons, system perf	ormance, and pre	ciudes ma	ast erection. Anter	nna
Old Causes	(1st Cavalry Division, 199	12).			Ch	nanged Full Impact	N
Old Source	ist Cavally Division, 193	· · · · · · · · · · · · · · · · · · ·					
New Source	FM 34-81-1, Appendix I-9	, Dec 1992					
Comments							
Change to Sour	ce? Y	Are There Any (	(2) Options? N		Any Ch	hange to Record?	Y

#### IWEDA Subsystem Rules ID# 61 Subsystem Name **MLQ-34 ANTENNA** Rule 1# 56 Rule 2# Delete Rule? N 2 Old Color 2 **New Color** Changed Color? Ν Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Changed Param. 1? N Freezing Rain Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 New Value 1 None Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Old Operator 1 New Opt. 1 New Opt. 2 Changed Opt. 2? **Old Condensed** Freezing Rain **New Condensed** Freezing Rain Changed N Impact Condensed Impact? Impact Old Full Impact | Any occurrence of freezing rain reduces antenna effectiveness by degrading power output of antenna. May also preclude mast erection. Freezing rain accumulation >= .25 inch will damage antenna & mast. New Full Impact Any occurrence of freezing rain reduces antenna stability, may also preclude mast erection. Changed Full Impact Y Old Source (1st Cavalry Division, 1992); FM 34-81-1, Appendix M-8, Dec 1992 **New Source** Comments Change to Source? Y Are There Any (2) Options? N Any Change to Record? ID# 62 Subsystem Name **MLQ-34 ANTENNA** Rule 1# 63 Rule 2# Delete Rule? N Changed Color? N Old Color **New Color** surfacewindspeed **Surface Wind Speed** Changed Param. 1? Parameter 1 # 21 Old Param. 1 ID New Param. 1 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID 30 New Value 1 30 kts. Changed Value 1? Old Value 1 Old Value 2 New Value 2 Changed Value 2? Changed Opt. 2? Changed Opt. 1? N Old Opt. 2 Old Operator 1 New Opt. 2 New Opt. 1 Old Condensed **Surface Wind New Condensed Surface Wind** Changed Ν Impact Condensed Impact? Impact Old Full Impact Surface wind speed >= 30 kts moderately degrades the antenna performance. The antenna would have to erected at less than full height to prevent damage. Line of sight would decrease. New Full Impact Surface wind speed >= 30 kts moderately degrades the antenna performance. The antenna would have to erected at less than full height to prevent damage. Line of sight would decrease.

Are There Any (2) Options?

N

Y

(1st Cavalry Division, 1992);

FM 34-81-1, Appendix I-4, Dec 1992

**Old Source** 

**New Source** 

Comments

Change to Source?

Changed Full Impact

#### **IWEDA Subsystem Rules** ID# 63 Subsystem Name MLQ-34 ANTENNA Delete Rule? Rule 1# 73 Rule 2# Old Color 2 **New Color** Changed Color? N surfacewindspeed Surface Wind Speed 21 Old Param. 1 ID New Param. 1 ID Changed Param. 1? Parameter 1 # Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? 43 New Value 1 50 kts. Old Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Old Operator 1 New Opt. 1 Changed Opt. 2? New Opt. 2 Old Condensed Surface Wind **New Condensed** Strong Surface Wind Changed Condensed Impact? Impact Impact Old Full Impact Surface wind speed >= 43 kts exceeds the operating limits and the antenna must be stowed. New Full Impact Surface wind speed >= 50 kts. exceeds the operating limits and the antenna must be stowed. Changed Full Impact | Y Old Source (1st Cavalry Division, 1992); **New Source** FM 34-84-1, Appendix I-5, Dec 1992 Comments Y N Change to Source? Y Are There Any (2) Options? Any Change to Record? MLRS MUNITIONS Rule 1# 12 Rule 2# Delete Rule? ID# 64 Subsystem Name Changed Color? N **New Color** Old Color temperature Changed Param. 1? New Param. 1 ID Temperature 22 Old Param. 1 ID Parameter 1 # New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID - 40 F Ν -40 New Value 1 Changed Value 1? Old Value 1 New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? N Old Operator 1 New Opt. 1 Old Opt. 2 New Opt. 2 Changed Opt. 2? Cold **New Condensed Extreme Cold** Changed Old Condensed Condensed Impact? Impact Old Full Impact Temperatures <= -40 F change the safe firing range. New Full Impact Temperatures <= - 40 F change the safe firing range. Changed Full Impact | N (1st Cavalry Division, 1992); Old Source Rule validated by USAFAS, POC SFC Garrett, 3 Dec 1997 **New Source** Comments Any Change to Record? Υ Are There Any (2) Options? N

Change to Source?

#### **IWEDA Subsystem Rules MLRS MUNITIONS** ID# 65 Subsystem Name Rule 1# 21 Rule 2# Delete Rule? Ν Old Color **New Color** Changed Color? Ν 22 Old Param. 1 ID New Param. 1 ID Parameter 1 # temperature Temperature Changed Param. 1? Ν Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? 125 F Old Value 1 125 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? **Old Condensed** Hot **New Condensed Extreme Heat** Changed Impact Impact Condensed Impact? Old Full Impact Temperatures >= 125 F change the safe firing range and can cause breakdown of the propellants. New Full Impact Temperatures >= 125 F change the safe firing range and can cause breakdown of the propellants. Changed Full Impact N **Old Source** (1st Cavalry Division, 1992); **New Source** Rule validated by USAFAS, POC SFC Garrett, 3 Dec 1997 Comments Υ Y N Change to Source? Are There Any (2) Options? Any Change to Record? **NBC PRESSURIZATION** 24 Rule 2# Delete Rule? ID# 66 Rule 1# Subsystem Name Changed Color? Old Color **New Color** Old Param. 1 ID temperature New Param. 1 ID Temperature Changed Param. 1? Parameter 1 # 22 Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 100 New Value 1 100 F Changed Value 1? New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 Old Condensed Hot **New Condensed** Very Hot Changed Condensed Impact? Impact Impact Old Full Impact Temperatures >= 100 F seriously degrade the engine performance when the NBC protective system is operating. Engine output is reduced by 25%. New Full Impact Temperatures >= 100 F seriously degrade the engine performance when the NBC protective system is operating. Engine output is reduced by 25%. Changed Full Impact (1st Cavalry Division, 1992); Old Source Personal interview with SME, 12 Nov 1997, SFC James Wicker, Maintenance Company HHC1-52 Armor Battalion, **New Source** NC National Guard, Fayetteville, NC. Comments

N

Are There Any (2) Options?

Υ

Change to Source?

		IWEDA Su	bsystem R	ules			
ID# 67 Sul	bsystem Name	OH-58 ENGINE		Rule 1 # 6	8 Rule 2 #	Delete Rule?	, <b>Y</b>
Old Color	2 New Color			<u> </u>		Changed Color?	
Parameter 1 #	21 Old Param. 1 ID	surfacewindspeed	New Param. 1	ID		Changed Param. 1?	
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID D		Changed Param. 2?	
Old Value 1	45	New Value 1				Changed Value 1?	
Old Value 2		New Value 2				Changed Value 2?	
Old Operator 1	> New Opt. 1	Changed Opt. 1?	Old Opt. 2	New C	pt. 2	Changed Opt. 2?	_ ا
Old Condensed Impact	Surface Wi	nd New Con-	densed			Changed Condensed Impact?	
Old Full Impact	Surface winds >= 45 kt	s exceeds the systems o	perating limits t	o start engin	es.		
New Full Impac	t						
						Changed Full Impact	<u> </u>
Old Source	(1st Cavalry Division, 1	992);					
New Source	Delete Rule: Incorporat	ted in OH-58C System Ru	ile ID# 161.	•			
Comments							
Comments							
ID# 68 Sub	osystem Name	PERSONNEL MOVEME	NT	Rule 1 # 2	8 Rule 2 #	Delete Rule?	Y
Old Color	1 New Color					Changed Color?	
Parameter 1 #	18 Old Param. 1 ID	snowdepth	New Param. 1 I	D		Changed Param. 1?	
Parameter 2 #	Old Param. 2 ID		New Param. 2 I	D		Changed Param. 2?	
Old Value 1	3	New Value 1				Changed Value 1?	
Old Value 2		New Value 2				Changed Value 2?	
Old Operator 1	>= New Opt. 1	Changed Opt. 1?	Old Opt. 2	New C	pt. 2	Changed Opt. 2?	
Old Condensed Impact	Snow Cov	er New Condimpact	densed			Changed Condensed Impact?	
Old Full Impact	Total snow depth >= 3	inces makes movement o	difficult.				
New Full Impact							
						Changed Full Impact	
Old Source	(1st Cavalry Division, 1	992);					
New Source	Delete Rule: Too restri	citive. FM 90-22 talks onl	y of deep snow.	. See Rule ID	# 69		-
Comments							

Change to Source?

N

Are There Any (2) Options?

····	and valuation of Curr	IWEDA Su	bsvstem	Rule	<u> </u>	SIC	Technical Report	
		PERSONNEL MOVEMI	ENT	Ru	ıle 1 # 29	Rule 2#	L	
Old Color	2 New Color	1	1				Changed Colo	
Parameter 1 #	18 Old Param. 1 ID	snowdepth	New Paran		Snow De	pth	Changed Param.	1? N
Parameter 2 #	Old Param. 2 ID		New Paran				Changed Param.	2?
Old Value 1	6	New Value 1		6 iı	n.		Changed Value 1?	N
Old Value 2		New Value 2					Changed Value 2?	1
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	N Old Opt.	2	New Opt. 2	2	Changed Opt.	2?
Old Condensed Impact	Snow Cover	New Con Impact	densed	Moder	rate Snow Co	ver	Changed Condensed Impact	? Y
Old Full Impact	Total snow depth >= 6 inc	es makes movement	very difficult					
New Full Impact	Total snow depth >= 6 inc	hes makes movemen	t very difficu	ılt.				
	L						Changed Full Impa	act N
Old Source	(1st Cavalry Division, 1992	2);						
New Source	FM 90-22, Chapter 1, Page TBMED 81, Para 3.c.(10), S FM 31-71, Para 1-12a(2), J	Sep 1976						
Comments								
Change to Sour	rce? Y	Are There Any	(2) Options?	N		An	y Change to Record	? Y
ID# 70 Sub		PERSONNEL MOVEMI	ENT	Ru	ile 1 # 54	Rule 2#		
Old Color	2 New Color	1	7	_			Changed Colo	<u> </u>
Parameter 1 #	14 Old Param. 1 ID	rain	New Paran	1. 1 ID	Rain		Changed Param.	
Parameter 2 #	Old Param. 2 ID		New Paran	1. 2 ID			Changed Param.	<u></u>
Old Value 1	2	New Value 1		Mode	erate		Changed Value 1?	Υ Υ
Old Value 2		New Value 2					Changed Value 2?	'
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?			New Opt. 2	2	Changed Opt.	2?
Old Condensed Impact	Precipitation	New Con Impact	densed	<b>!</b>	leavy Rain		Changed Condensed Impact	? Y
Old Full Impact	Rain > moderate intensity	makes movement ve	ry difficult.					
New Full Impact	Rain > moderate intensity	makes movement ve	ry difficult.					
Old Source	(1st Cavalry Division, 199	2);					Changed Full Impa	act N

N

Are There Any (2) Options?

Y

FM 90-22, Chapter 1, Jan 1991

**New Source** 

Comments

Change to Source?

ID# 71 Sul	osystem Name	PERSONNEL MOVEME	ENT	Rule 1 # 55 F	Rule 2 # Delete Rule? Y
Old Color	2 New Color				Changed Color?
Parameter 1 #	10 Old Param. 1 ID	freezingrain	] New Param. 1 I	D	Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2 I	D	Changed Param. 2?
Old Value 1	1	New Value 1			Changed Value 1?
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Freezing Rain	New Con-	densed		Changed Condensed Impact?
Old Full Impact	Freezing rain > light inter	sity makes movement	very difficult an	d severely degrad	les effectiveness.
New Full Impact					
Old Source	(1st Cavalry Division, 199	2).			Changed Full Impact
Old Source	(1st oavany bivision, 155	~/,			
New Source	Delete Rule: Too restricti	ve. FM 90-22 does not	specifically me	ntion freezing rain	. See Rule ID# 72.
Comments					
Change to Sour	re?	Are There Any	(2) Options? N	7	Any Change to Record?
onungo to cou	<b>.</b>	,	(4) - 1	j ;	
1D # 72 Cul	oveter Norse	PERSONNEL MOVEME	ALT	Rule 1 # 56 F	Rule 2 # Delete Rule? N
ID # 72 Sub	osystem Name I  1 New Color	1	LIV I	rule i # 30 F	Changed Color? N
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 I	D Freezing R	
Parameter 2 #	Old Param. 2 ID		New Param, 2 li		Changed Param. 2?
Old Value 1	0	New Value 1	]	None	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	1	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact		New Condimpact	densed	Freezing Rain	Changed Condensed Impact?
•	Any occurrence of freezir	•	ent difficult.		
Old Call Impact	,	3			
New Full Impact	Any occurrence of freezing	ng rain makes moveme	ent difficult and	diminishes effectiv	veness .
					Channel Full Impact V
Old Source	(1st Cavalry Division, 199	2).			Changed Full Impact Y
214 204106					
New Source	FM 90-22, Chapter 1, Jan	1991			
Comments					
<b>.</b>		A 771 -	(0) 0-1:		A Ob 1. D 10 [V]
Change to Sour	ce? Y	Are There Any	(2) Options? 🔟 <b>N</b>		Any Change to Record?

		IWEDA Su	bsystem Ru	les	
ID # 73 Sub	system Name	PERSONNEL MOVEM	ENT I	Rule 1 # 58 Rule	2# Delete Rule? N
Old Color	2 New Color	1		<u> </u>	Changed Color? Y
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1 ID	Snow	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		⊸ New Param. 2 ID		Changed Param. 2?
Old Value 1	3	New Value 1	Mo	derate	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	= New Opt. 1 >	Changed Opt. 1?	Y Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Snow	New Cor	ndensed	Heavy Snow	Changed Condensed Impact?
	Snow > moderate intensi		ery difficult.		
New Full Impact	Snow > moderate intensi	ity makes movement v	ery difficult.		
					Changed Full Impact N
Old Source	(1st Cavalry Division, 199	92);			
	FM 90-22, Chapter 1, Jan TBMED 81, Para 3(c)10, 8				
Comments					
Change to Source	ce? Y	Are There Any	(2) Options? N		Any Change to Record? Y
ID # <b>74</b> Sub	system Name	PERSONNEL MOVEM	ENT	Rule 1 # 59 Rule	2# Delete Rule? Y
Old Color	1 New Color			<del></del>	Changed Color?
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1 ID		Changed Param. 1?
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	1	New Value 1			Changed Value 1?
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Snow	New Cor	ndensed		Changed Condensed Impact?
	Snow > light intensity m		ılt.		
New Full Impact					
Old Source	(1st Cavalry Division, 19	921-			Changed Full Impact
Jid Jource	Cavally Division, 15	v-j,			
New Source	Delete Rule: FM 90-22, J See Rule ID# 73	Jan 1991 and TBM 81,	Sep 1976 speak on	lly of deep snow.	
Comments					
Change to Sour	ce?	Are There Any	(2) Options? N		Any Change to Record? Y

***************************************	· · · · · · · · · · · · · · · · · · ·				
ID# 75 Su	bsystem Name	PERSONNEL MOVEN	IENT	Rule 1 # 65 Rule	e 2 # Delete Rule? N
Old Color	2 New Color	2			Changed Color? N
Parameter 1 #[	21 Old Param. 1 ID	surfacewindspeed	New Param. 1	ID Surface Wind Sp	eed Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID	Changed Param. 2?
Old Value 1	40	New Value 1		40 kts.	Changed Value 1? N
Oid Value 2		New Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Surface Wind	d New Co Impact	ndensed S	strong Surface Wind	Changed Condensed Impact?
Old Full Impact	Surface wind speed >= 4	0 kts makes moveme	nt very difficult a	nd severly degrades	effectiveness.
Name Full lands	L.	0.1-1	4		
New Full Impac	Surrace wind speed >= 4	u kts makes movemer	nt very dimicuit a	nd dangerous and se	verly degrades effectiveness
	L				Changed Full Impact Y
Old Source	(1st Cavalry Division, 19	92);			
New Source	FM 90-22, Chapter 1, Par	2 "Wind"   lan 1001			
New Cource	7 m 30-22, Onapter 1, 1 ar	u viiia, vaii 1551			
Comments	<u> </u>				
Comments					
Change to Sour	ce? Y	Are There Any	(2) Options?	N	Any Change to Record? Y
-		•			
.p. # [ <b></b>		DEDOCUMENT MOVEM		D / 4 # 20 D /	0.1/
L		PERSONNEL MOVEM	ENI	Rule 1 # 66 Rule	Delete Rule? N
Old Color Parameter 1 #	1 New Color 21 Old Param. 1 ID	surfacewindspeed	New Param. 1	ID Surface Wind Spo	Changed Color? Need Changed Param. 1? N
Parameter 1 # [	Old Param. 2 ID	Surfacewindspeed	New Param. 2	<u> </u>	Changed Param. 1? N
Old Value 1	25	New Value 1	New Param. 2	25 kts.	
	25	New Value 1		25 KIS.	Changed Value 1? N Changed Value 2?
Old Value 2	>= New Opt. 1 >=		N Old Opt. 2	Now Ont 2	
Old Operator 1				New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Surface Wind	Impact	adensed	Surface Wind	Changed Condensed Impact?
Old Full Impact	Surface wind speed >= 2	5 kts makes movemer	t difficult and de	egrades effectiveness.	
New Full Impact	Surface wind speed >= 2	5 kts makes movemer	t difficult and de	egrades effectiveness.	•
					Changed Full Impact N
Old Source	(1st Cavalry Division, 199	)2):			Changed Full Impact N
014 004100	(Tot outurn) Division, Tot				
New Source	FM 90-22, Chapter 1, Para	a "Wind,", Figure B2, .	Jan 1991		
Comments					
Change to Sour	ce? Y	Are There Any		4	Any Change to Record? Y

		IWEDA Su	bsystem Rul	es				
ID# 77 Sut	osystem Name	PPS-5B BATTERY	R	Rule 1 # 8 R	ule 2 #	Delete Rule?	? <b>Y</b>	
Old Color	1 New Color					Changed Color?		
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID		Ch	anged Param. 1?		
Parameter 2 # Old Param. 2 ID			New Param. 2 ID		Ch	Changed Param. 2?		
Old Value 1 17		New Value 1			Changed Value 1?			
Old Value 2		New Value 2			Cha	anged Value 2?		
Old Operator 1	<= New Opt. 1	Changed Opt. 1?	Old Opt. 2	New Opt. 2		Changed Opt. 2?	? <u> </u>	
Old Condensed Cold Impact		New Cond Impact	ndensed		Changed Condensed Impact?			
Old Full Impact	Temperatures <= 17 F re	educe the useful life of t	he battery. The PP	S-5B works at a	pproximate	ly 20% of capaci	ty.	
New Full Impact								
•								
					Cha	anged Full Impact		
Old Source	(1st Cavalry Division, 1	992);						
New Source	Delete Rule: No mention	n of this temperature se	nsitivity in TM 11-5	5840-298-12, Par	a 3-28, Jun	1986		
Comments								
Change to Sour	ce? Y	Are There Any	(2) Options? N		Any Ch	ange to Record?	Υ	
Change to Soul	ce: T	Ale filele Ally	(2) Options:		Ally On	ange to record:	Ŀ	
ID# 78 Sul	osystem Name S	MOKE GRENADE LAUN	CHER R	Rule 1 # 56 R	ule 2 #	Delete Rule?	N	
Old Color	1 New Color	1	J. C.			Changed Color?	N	
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 ID	Freezing Ra	ain Ch	anged Param. 1?	<u></u>	
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID			anged Param. 2?		
Old Value 1	0	New Value 1	No.	one		anged Value 1?	Y	
Old Value 2	1.	New Value 2				anged Value 2?		
Old Operator 1	> New Opt. 1	Changed Opt. 1?	N Old Opt. 2	New Opt. 2		Changed Opt. 23	, <u> </u>	
Old Condensed Impact	Freezing Ra	nin New Con	densed F	Freezing Rain		nged densed Impact?	N	
•	Any occurrence of free	zing rain may accumulat	e on the launcher	and cause probl	ems when	launching.		
•								
New Full Impac	Any occurrence of freez	zing rain may accumulat	e on the launcher	and cause probl	ems when	aunching.		
					Cha	anged Full Impact	N	
Old Source	(1st Cavalry Division, 1	992);						
New Source	Personal interview with SME, 12 Nov 1997. CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, Ft. Bragg, NC.							
Comments								

Are There Any (2) Options?

Y

Change to Source?

	<del> </del>									
ID# 79 Sub	system Name	SMOKE GRENADE LA	UNCHER	Rule 1 # 59	Rule 2 # Delete Rule? N					
Old Color	1 New Color	1			Changed Color? N					
Parameter 1 #	17 Old Param. 1 ID	snow	New Param. 1	ID Snow	Changed Param. 1? N					
Parameter 2 #	Old Param. 2 ID		New Param. 2	ID	Changed Param. 2?					
Old Value 1	1	New Value	1	Light	Changed Value 1? Y					
Old Value 2		New Value	2		Changed Value 2?					
Old Operator 1	> New Opt. 1	> Changed Opt. 1	? N Old Opt. 2	New Opt. 2	Changed Opt. 2?					
Old Condensed Impact	Snow	New C Impac	Condensed t	Snow	Changed Condensed Impact?					
Old Full impact Snow > light intensity may accumulate on the launcher and cause problems when launching.										
New Full Impact	Snow > light intensity	may accumulate on th	e launcher and ca	use problems who	en launching.					
Old Source	(1st Cavalry Division,	1992);	· · · · · · · · · · · · · · · · · · ·		Changed Full Impact N					
New Source	Personal interview with SME, 12 Nov 1997. CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, Ft. Bragg, NC.									
Comments				· 5.002.4						
Change to Sourc	ce? Y	Are There A	ny (2) Options?	N	Any Change to Record? Y					
ID# <b>80</b> Sub	system Name	SOLDIER EFFECTIV	ENESS	Rule 1 # 7	Rule 2 # Delete Rule? N					
Old Color	2 New Color	2		, reals , "	Changed Color? N					
	22 Old Param. 1 ID	temperature	New Param. 1	ID Temperat						
Parameter 2 #	Old Param. 2 ID		New Param. 2		Changed Param. 2?					
Old Value 1	-25	New Value	1	- 25 F	Changed Value 1? N					
Old Value 2		New Value	2		Changed Value 2?					
Old Operator 1	<= New Opt. 1	Changed Opt. 1'	N Old Opt. 2	New Opt. 2	Changed Opt. 2?					
Old Condensed	Cold	New C	Condensed t	Extreme Cold	Changed Condensed Impact?					
Old Full Impact	Temperatures of -25 F or below make it very difficult for an exposed soldier to perform.									
New Full Impact	Temperatures <= -25F	requires survival effor	ts.							
Old Source	(1st Cavalry Division,	1992);			Changed Full Impact Y					
	FM 90-22, Chapter 1, FM 31-71, Figure 2-1,									
Comments										
Change to Source	ce? Y	Are There A	ny (2) Options?	N	Any Change to Record?					

ID# 81 Sub	system Name	so	LDIER EFF	ECTIVEN	ESS	Ru	ıle 1 # <b>14</b>	Rule 2#	Delete Rule	? N
Old Color	1 New Co	olor	1						Changed Color?	N
Parameter 1 #	22 Old Param. 1	ID	temperatu	re	New Pa	aram. 1 ID	Тетрега	ture	Changed Param. 1	? N
Parameter 2 #	Old Param. 2	ID			New Pa	aram. 2 ID			Changed Param. 2	?
Old Value 1	10		New	Value 1		10	F		Changed Value 1?	N
Old Value 2			New	Value 2					Changed Value 2?	
Old Operator 1	<= New Opt. 1	<=	Changed	Opt. 1? [	V Oid (	Opt. 2	New Opt. 2	2	Changed Opt. 2	?
Old Condensed Impact		Cold	1	New Cond Impact	densed		Very Cold		Changed Condensed Impact?	Y
Old Full Impact	Temperatures of	10 F or be	low make it	difficult f	for an ur	protected	soldier to per	form.		
New Full Impact	Temperatures of	<= 10 F di	iminishes pe	erformand	e and e	ffectivenes	s.			
Old Source	(1st Cavalry Divis	sion, 1992)	);	***************************************					Changed Full Impac	t Y
New Source	FM 90-22, Chapte	er 1, Figure	e B2, Jan 19	91						:
Comments										
Change to Source	ce? Y		Are T	here Any	(2) Optio	ns? N		An	y Change to Record?	Y
ID# 82 Sub	system Name	so	OLDIER EFF	ECTIVEN	ESS	Ri	ule 1 # 19	Rule 2#	Delete Rule	? N
	system Name		OLDIER EFF	ECTIVEN	ESS	Rı	ule 1 # 19	Rule 2 #		
Old Color	1 New Co	olor	1		1		<u> </u>		Changed Color?	N
Old Color	New Co	olor			New Pa	aram. 1 ID	ule 1 # 19 Tempera		Changed Color?  Changed Param. 1	? N ? N
Old Color Parameter 1 #	1 New Co	olor	1 temperatu		New Pa	aram. 1 ID	Tempera		Changed Color?	? N ? N
Old Color Parameter 1 # Parameter 2 #	New Co 22 Old Param. 1 Old Param. 2	olor	temperatu New	re	New Pa	aram. 1 ID	Tempera		Changed Color? Changed Param. 1' Changed Param. 2'	? N ? N ?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1	New Co 22 Old Param. 1 Old Param. 2	ID ID	temperatu New	re Value 1 Value 2	New Pa	aram. 1 ID	Tempera	ture	Changed Color? Changed Param. 1 Changed Param. 2 Changed Value 1?	? N ? N ? N
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2	1 New Co 22 Old Param. 1 Old Param. 2 85 >= New Opt.	ID ID	temperatu  New New	re Value 1 Value 2	New Pa	aram. 1 ID aram. 2 ID (	Tempera	ture	Changed Color? Changed Param. 1' Changed Param. 2' Changed Value 1? Changed Value 2?	? N ? N ? N
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact	1 New Co 22 Old Param. 1 Old Param. 2 85 >= New Opt.	olor ID R ID	1 temperatu  New New Changed	Value 1 Value 2 Opt. 1? [I	New Pa	aram. 1 ID aram. 2 ID  85 Opt. 2	F New Opt. 2	ture	Changed Color? Changed Param. 1' Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?	? N ? N ? N 
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	1 New Co 22 Old Param. 1 Old Param. 2 85 >= New Opt.	olor ID PID PID PID PID PID PID PID PID PID	temperatu  New New Changed	Value 1 Value 2 Opt. 1? [I New Condimpact	New Pa	aram. 1 ID aram. 2 ID 85 Opt. 2	F New Opt. : Hot	ture	Changed Color? Changed Param. 1' Changed Param. 2' Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?	? N ? N ? N 
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	New Co  22 Old Param. 1  Old Param. 2  85  >= New Opt.	olor ID PID PID PID PID PID PID PID PID PID	New New Changed rade crew ef	Value 1 Value 2 Opt. 1? [I New Condimpact	New Pa	aram. 1 ID aram. 2 ID 85 Opt. 2	F New Opt. : Hot	ture	Changed Color? Changed Param. 1' Changed Param. 2' Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?	? N ? N ? N ? N ? N
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact	1 New Co 22 Old Param. 1 Old Param. 2 85 >= New Opt.	olor ID	New New Changed rade crew ef	value 1 Value 2 Opt. 1? [I New Condimpact Impact Iffectivene	New Pa	aram. 1 ID aram. 2 ID 85 Opt. 2	F New Opt. : Hot	ture	Changed Color? Changed Param. 1' Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact? t stress.	? N ? N ? N ? N ? N
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact  Old Source	1 New Co 22 Old Param. 1 Old Param. 2 85  >= New Opt.  Temperatures >=  (1st Cavalry Divisor)  TBMED 507, Section 1.1	olor ID ID ID IID III >= Hot III S F degrees I	New New Changed rade crew ef	value 1 Value 2 Opt. 1? [I New Condimpact Impact Iffectivene	New Pa	aram. 1 ID aram. 2 ID 85 Opt. 2	F New Opt. : Hot	ture	Changed Color? Changed Param. 1' Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact? t stress.	? N ? N ? N ? N ? N

ID# 83 Sul	osystem Name S	SOLDIER EFFECTIVEN	ESS R	tule 1 # 20 Rule 2	2 # Delete Rule?	N
Old Color	2 New Color	2			Changed Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?	
Old Value 1	95	New Value 1	95	5 F	Changed Value 1?	N
Old Value 2		New Value 2			Changed Value 2?	
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?	·
Old Condensed Impact	Hot	New Con-	densed E	Extreme Heat	Changed Condensed Impact?	Y
Old Full Impact	Temperatures >= 95 F sev	verely degrade crew ef	fectiveness and pe	rformance due to pr	obable heat stress.	
New Full Impact	Wet Bulb temperatures >	= 95 F severely degrad	e effectiveness and	d performance due to	o heat stress	
			· · · · · · · · · · · · · · · · · · ·			
Old Source	(1st Cavalry Division, 199	(2);			Changed Full Impact	Υ
New Source	TBMED 507, Section II, Para FM 90-22, Chapter 1, Para					
Comments						
ID# <b>84</b> Sub	osystem Name S	OLDIER EFFECTIVEN	ESS R	ule 1 # <b>84</b> Rule 2	# Delete Rule?	N
Old Color	2 New Color	2			Changed Color?	N
Parameter 1 #	27 Old Param. 1 ID	windchill	New Param. 1 ID	Wind Chill	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?	
Old Value 1	-25	New Value 1	- 2	5 F	Changed Value 1?	N
Old Value 2		New Value 2			Changed Value 2?	
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?	
Old Condensed Impact	Wind Chill	New Condimpact	densed Extr	eme Wind Chill	Changed Condensed Impact?	Y
Old Full Impact	Effective temperatures < of freezing exposed flesh		cult for a soldier to	perform without she	elter and presents dang	er
New Full Impact	Effective temperatures < of freezing exposed flesh	=	cult for a soldier to	perform without she	elter and presents dang	er
					Changed Full Impact	N
Old Source	(1st Cavalry Division, 199	2);				
New Source	FM 90-22, Chapter 1, Figu	re B2, Jan 1991				
Comments						
Change to Source	ce? Y	Are There Any	(2) Options? N	,	Any Change to Record?	Y

#### IWEDA Subsystem Rules STINGER-AIR ID# 85 Subsystem Name Rule 1# 56 Rule 2# Delete Rule? N 2 New Color 2 Changed Color? Ν Old Color 10 Old Param. 1 ID freezingrain New Param. 1 ID Freezing Rain Changed Param. 1? Ν Parameter 1 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # 0 New Value 1 None Changed Value 1? Old Value 1 Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? | N | Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 New Condensed Freezing Rain Changed Old Condensed Freezing Rain Impact Condensed Impact? Impact Old Full Impact Any occurrence of freezing rain will freeze the missile to the aircraft missile launcher rails and make firing the missile very difficult. New Full Impact Any occurrence of freezing rain will obscure the lens making target acquisition very difficult. Changed Full Impact Y **Old Source** (1st Cavalry Division, 1992); **New Source** Personal interviews with SME, 19 Nov 1997. CWR James D. Morgan, Master Gunner, 82 Aviation Brigade, Ft. Bragg, NC. Comments Y Ν Any Change to Record? Change to Source? Are There Any (2) Options? STINGER-AIR Rule 1# 77 Rule 2# Delete Rule? ID# 86 Subsystem Name Changed Color? **New Color** Old Color Changed Param. 1? Ν icingintensity New Param. 1 ID Icing Intensity Parameter 1 # 12 Old Param. 1 ID Old Param. 2 ID New Param, 2 ID Changed Param. 2? Parameter 2 # 1 New Value 1 Light Changed Value 1? Old Value 1 Changed Value 2? New Value 2 Old Value 2 Changed Opt. 1? Y Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Condensed Icing Aloft Changed Old Condensed Icing Aloft N Condensed Impact? **Impact** Impact Old Full Impact Icing intensity >= moderate will freeze the missile to the aircraft missile launcher rails and make firing the missile very difficult. New Full Impact cing intensity >= light will obscure the lens making target acquisition very difficult. Changed Full Impact | Y (1st Cavalry Division, 1992); Old Source Personal interviews with SME, 19 Nov 1997. CWR James D. Morgan, Master Gunner, 82 Aviation Brigade, Ft. **New Source** Bragg, NC. Comments

N

Are There Any (2) Options?

Υ

Change to Source?

t		IWEDA Su	ıbsyster	n Ru	les					
ID # 87 Su	bsystem Name	STINGER-GRND		F	Rule 1#	17	Rule 2#		Delete Rule?	? N
Old Color	2 New Color	2						C	hanged Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Para	m. 1 ID	Te	mper	ature	Chan	ged Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Para	m. 2 ID				Chan	ged Param. 2?	
Old Value 1	120	New Value 1		14	10 F			Chang	jed Value 1?	Y
Old Value 2		New Value 2						Chang	ed Value 2?	
Old Operator 1	>= New Opt. 1 >	Changed Opt. 1?	Y Old Opt	t. 2	Nev	w Opt.	2	C	nanged Opt. 2?	,
Old Condensed Impact	Hot	New Cor Impact	ndensed		Extreme	Heat		Change Conde	ed nsed Impact?	Y
Old Full Impact	Temperatures > 120 F e	xceed the operational I	imits.							
New Full Impac	Temperatures > 140 F e	xceed the operational I	imits.							
0110								Chang	ed Full Impact	Y
Old Source	(1st Cavalry Division, 19	992);								
New Source	FM 44-18, Page 9-5, May	y 1985								
Comments										
Change to Sour	rce? Y	Are There Any	(2) Options?	? N			Any	/ Chang	je to Record?	Y
	bsystem Name	STINGER-GRND		F	Rule 1 #[	97	Rule 2#	97	Delete Rule?	Y
Old Color	1 New Color		☐ New Bere	1 ID				_	nanged Color?	$\vdash$
Parameter 1 #	3 Old Param. 1 ID 4 Old Param. 2 ID	cloudbase	│ New Parar │ New Parar	L				-	ged Param. 1? ged Param. 2?	
Parameter 2 # Old Value 1	2500	New Value 1	New Falai	111. 2 10	L		1	1	ed Value 1?	
Old Value 2	0	New Value 1							ed Value 1: ed Value 2?	$\vdash$
Old Operator 1		Changed Opt. 1?	Old Opt	2	> Nev	v Ont	2		nanged Opt. 2?	$\cdot$
Old Condensed Impact		New Cor						— Change	-	
•	Cloud bases < 2500 ft m		n and identi	fication	of aircr	aft ve				
New Full Impac										
Old Source	(1st Cavalry Division, 19	992);						Chang	ed Full Impact	
New Source	Delete Rule: Personal ir Brigade, Ft Bragg, NC.									
Comments										
Change to Sour	rce? Y	Are There Any	(2) Options?	? <b>Y</b>			Any	Chang	e to Record?	Y

		IWEDA Su	bsyste	m Rul	es			
ID# 89 Sub	system Name	STINGER-GRND		R	ule 1 # 102 R	ule 2#	102 Delete Rule?	· <b>Y</b>
Old Color	1 New Color				<u> </u>		Changed Color?	H
Parameter 1 #	3 Old Param. 1 ID	cloudbase	New Par	ram. 1 ID			Changed Param. 1?	
Parameter 2 #	4 Old Param. 2 ID	cloudcover	New Par	ram. 2 ID			Changed Param. 2?	
Old Value 1	5000	New Value 1					Changed Value 1?	Ī
Old Value 2	0	New Value 2					Changed Value 2?	
Old Operator 1	< New Opt. 1	Changed Opt. 1?	Old O	pt. 2	> New Opt. 2		Changed Opt. 2?	, 🔲
Old Condensed Impact	Clouds	New Cond Impact	densed		Clouds		Changed Condensed Impact?	
Old Full Impact	Cloud bases < 5000 ft ma	ke the visual detection	and ider	ntification	of aircraft diffic	ult.		
New Full Impact								
							Changed Full Impact	=
Old Source	(1st Cavalry Division, 199	2);					Changed Full Impact	
New Source	Delete Rule: Personal into Brigade, Ft Bragg, NC. Th							
Comments								
Change to Source	ce? Y	Are There Any	(2) Ontion	s? Y			y Change to Record?	Y
ID # 90 Sub	system Name	TACFIRE COMPUTE	R	R	ule 1 # 7 R	ule 2#	Delete Rule?	N
Old Color	2 New Color	2					Changed Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Pa	ram. 1 ID	Temperatu	re	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Par	ram. 2 ID			Changed Param. 2?	
Oid Value 1	-25	New Value 1		- 2	5 F		Changed Value 1?	N
Old Value 2		New Value 2					Changed Value 2?	
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1?	N Old O	pt. 2	New Opt. 2		Changed Opt. 2?	
Old Condensed Impact	Cold	New Condimpact	densed	E	Extreme Cold		Changed Condensed Impact?	Y
Old Full Impact	Temperatures <= -25 F ar	e below the operationa	ıl limits o	f the com	puter.			
New Full Impact	Temperatures <= -25 F ar	e below the operationa	Il limits o	f the com	puter.			
Old Source	(1st Cavalry Division, 199	92);					Changed Full Impact	N
New Source	Rule validated by USAFA	S, POC SFC Garrett, 3	Dec 1997	7				
Comments								
Change to Source	ce? Y	Are There Any	(2) Option	ıs? N		An	y Change to Record?	Y

ID# <b>91</b> Su	bsystem Name	TACFIRE COMPUTE	R	Rule 1 # 19 Ru	ule 2 # Delete Rule? N
Old Color	1 New Color	1			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperatur	e Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID	,	Changed Param. 2?
Old Value 1	85	New Value 1		85 F	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1 >	= Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Hot	New Con Impact	densed	Hot	Changed Condensed Impact?
Old Full Impact	Temperatures >= 85 F c	an cause the computer	to fail due to heat	buildup.	
New Full Impac	Temperatures >= 85 F c	an cause the computer	to fail due to heat	buildup.	
Old Source	(1st Cavalry Division, 19	992);			Changed Full Impact N
New Source	Rule validated by USAF	AS, POC SFC Garrett, 3	Dec 1997		
Comments					
Change to Sour	rce? Y	Are There Any	(2) Options? N		Any Change to Record? Y
		and the state of t			
ID# 92 Su	bsystem Name	TACFIRE COMPUTE	R	Rule 1 # 21 Ru	ile 2 # Delete Rule? N
Old Color	2 New Color	2			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	e Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	125	New Value 1	1:	25 F	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1 >	= Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2?
Old Condensed Impact	Hot	New Con Impact	densed	Extreme Heat	Changed Condensed Impact?
Old Full Impact	Temperatures >= 125 F buildup.	make heat dissipation v	ery difficult and le	ads to computer t	failure due to excessive heat
New Full Impac	<u> </u>	make heat dissipation v	ery difficult and le	ads to computer t	failure due to excessive heat
Old Source	(1st Cavalry Division, 19	992);			Changed Full Impact N
New Source	Rule validated by USAF	AS, POC SFC Garrett, 3	Dec 1997		
Comments					
Change to Sour	rce? Y	Are There Any	(2) Options? N		Any Change to Record?

		IWE	DA Su	bsyst	em Ru	les			
ID# 93 Sub	system Name	TLQ-17A	ANTENNA		F	Rule 1 # 32	Rule 2#	Delete	Rule? N
Old Color	2 New Color	2				L,		Changed C	Color? N
Parameter 1 #	23 Old Param. 1 ID	thunderst	orm	New Pa	aram. 1 ID	Surface	Wind	Changed Para	ım. 1? N
Parameter 2 #	Old Param. 2 ID			New Pa	aram. 2 ID			Changed Para	ım. 2?
Old Value 1	1	Nev	v Value 1		25	kts.		 Changed Value	9 1? Y
Old Value 2		Nev	v Value 2					Changed Value	2?
Old Operator 1	= New Opt. 1 >	Changed	f Opt. 1?	Y Old (	Opt. 2	New Op	t. 2	Changed C	)pt. 2?
Old Condensed Impact	Thunderstorm		New Cond Impact	densed	;	Surface Win	<del>1</del>	Changed Condensed Imp	act?
	Any occurrence of thunde antenna must be stowed o			ntially s	ignificant	hazard to eq	uipment a	nd operators. Th	1е
	Do not raise or lower ante are expected to exceed 25							ust be guyed if	winds
Old Source	(1st Cavalry Division, 1992	2);						Changed Full I	mpact Y
New Source	TM 32-5865-301-10, Para 2	2-36, Apr 19	92						
Comments									
Change to Source	ce? Y	Are '	There Any (	(2) Optio	ns? N		Ar	y Change to Rec	cord? Y
ID # 94 Sub	system Name	TOV	V-AIR		F	Rule 1 # 56	Rule 2#	Delete	Rule? N
Old Color	2 New Color	2				·		Changed C	
Parameter 1 #	10 Old Param. 1 ID	freezingr	ain	New Pa	aram. 1 ID	Freezin	g Rain	Changed Para	ım. 1? N
Parameter 2 #	Old Param. 2 ID			New Pa	aram. 2 ID			Changed Para	ım. 2?
Old Value 1	0	Nev	v Value 1	,	N	one		 Changed Value	1? <b>Y</b>
Old Value 2		Nev	v Value 2					Changed Value	2?
Old Operator 1	> New Opt. 1 >	Changed	l Opt. 1? [	N Old	Opt. 2	New Op	t. 2	Changed C	Opt. 2?
Old Condensed Impact	Freezing Rain		New Cond Impact	densed	I	Freezing Rai	n	Changed Condensed Imp	act?
Old Full Impact	Any occurrence of freezing	g rain may	cause the	missile	to freeze t	o the rails ar	d make fi	ing very difficul	t.
New Full Impact	Firing the TOW in freezing	g rain > non	e is prohib	ited bed	ause the	TOW warhea	d can deto	nate near the ai	rcraft.
Old Source	(1st Cavalry Division, 199	2);						Changed Full I	mpact Y
New Source	TM 55-1520-236-10, Para 8	3-51, 8-81, A	ug 1994						
Comments									

Are There Any (2) Options? N

Change to Source? Y

ID# 95 Sub	system	n Name		TOV	V-AIR			Rule	1 # 60	Rule	2#	Delete Ru	ule? Y	-
Old Color	2	New Co	or					•		_		Changed Cok	or?	=
Parameter 1 #	17 C	old Param. 1	D	snow		New Pa	aram. 1	ID				Changed Param.	1?	-
Parameter 2 #	c	old Param. 2	D			New Pa	aram. 2	ID 🗍				Changed Param.	2?	
Old Value 1		0		Nev	v Value 1							Changed Value 1	?	-
Old Value 2				Nev	v Value 2							Changed Value 2	?	
Old Operator 1	>	New Opt. 1		Changed	Opt. 1?	Old	Opt. 2		New Opt	. 2		Changed Opt	. 2?	
Old Condensed Impact		Sr	iow		New Con impact	densed						Changed Condensed Impact	t?	-
Old Full Impact	Any o	ccurrence o	snow m	nay cause t	he missile	to freez	e to the	rails a	and make	firing	very	difficult.		
New Full Impact														
Old Source	(1st C	avalry Divisi	on, 1992	);								Changed Full Imp	act	_
New Source	Delete	Rule: TM 9-	1425-472	2-12, Para 2	2-88, Nov 1	1990; Uni	usual c	onditio	ons makes	s no m	entic	on of this impact.		
Comments														]
														-
ID# 96 Sub	system	Name		TOV	V-AIR			Rule	1 # 76	Rule	2#	Delete Ru	ule? N	-
Old Color	2	New Col	or	2								Changed Cold	or? N	_
Parameter 1 #	12 C	ld Param. 1	D	icinginten	sity	New Pa	aram. 1	ID	Icing Int	ensity		Changed Param.	1? N	-
Parameter 2 #	o	ld Param. 2	D			New Pa	aram. 2	ID _				Changed Param.	2?	
Old Value 1		0		Nev	Value 1			None				Changed Value 13	? <b>Y</b>	
Old Value 2				Nev	Value 2							Changed Value 21	?	
Old Operator 1	>	New Opt. 1	>	Changed	Opt. 1?	N Old (	Opt. 2		New Opt	. 2		Changed Opt.	. 2?	
Old Condensed Impact		lcing	Aloft		New Con Impact	densed		lci	ng Aloft			Changed Condensed Impact	? N	
Old Full Impact	Any o	ccurrence of	icing m	ay cause th	ne missile	to freeze	to the	rails a	nd make	firing	very	difficult.		
New Full Impact	Firing flight	the TOW in level is betw	icing into	ensity > no ing base) &	ne is proh (~icing to	ibited be	cause	the wa	rhead car	n deto	nate	near the aircraft i	f the	j
Old Source	(1st C	avalry Divisi	on, 1992	);								Changed Full Imp	act Y	_
New Source	TM 55	-1520-236-10	), Para 8-	-51, 8-81, A	ug 1994									
Comments														]
Change to Source	:e? [	Y		Are ~	There Any	(2) Optio	ns?	V			Any	Change to Record	i? Y	]

#### **IWEDA Subsystem Rules** TOW-GRND ID# 97 Delete Rule? Rule 1# 4 Rule 2# N Subsystem Name Changed Color? N New Color Old Color Parameter 1 # 16 Old Param. 1 ID slope New Param. 1 ID Slope Changed Param. 1? N New Param. 2 ID Changed Param. 2? Old Param. 2 ID Parameter 2 # Old Value 1 7 New Value 1 7 degrees Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 >= Slope Old Condensed **New Condensed** Slope Changed N Condensed Impact? Impact Impact Old Full Impact | Slope >= 7 degrees degrades siting accuracy. New Full Impact When firing from a vehicle, slope >= 7 degrees degrades siting accuracy Υ Changed Full Impact (1st Cavalry Division, 1992); Old Source **New Source** FM 23-1, Para 1-5, Mar 1996 Comments Change to Source? Υ Are There Any (2) Options? Ν Any Change to Record? TOW-GRND Rule 1# 5 Rule 2# Delete Rule? N ID# 98 Subsystem Name 2 Changed Color? Ν Old Color 2 **New Color** N Slope Changed Param. 1? Parameter 1 # 16 Old Param. 1 ID slope New Param. 1 ID New Param. 2 ID Changed Param. 2? Old Param. 2 ID Parameter 2 # N 10 New Value 1 10 degrees Changed Value 1? Old Value 1 New Value 2 Changed Value 2? Old Value 2 Changed Opt. 1? | N | Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 **New Condensed** Changed Old Condensed Slope Slope N Impact Impact Condensed impact? Old Full Impact Slope >= 10 degrees exceeds the operational limits. New Full Impact When firing from a vehicle, slope >= 10 degrees exceed the operational limits Changed Full Impact Y **Old Source** (1st Cavalry Division, 1992); **New Source** FM 23-1, Para 1-5, Mar 1996

Are There Any (2) Options?

N

Υ

Comments

Change to Source?

				IV	VEDA S	ubsy	/ste	m R	ule	S					
ID# 99 Su	ıbsystem	Name		TC	W-GRND				Rule	e 1 #	18	Rule 2 #	ŧ	Delete Rule	? N
Old Color	2	New Color	. [	2									C	Changed Color	? N
Parameter 1 #	<b>22</b> O	ld Param. 1 ID		tempe	rature	Nev	v Par	am. 1 l	D	Ten	прега	ture	Cha	nged Param. 1	? N
Parameter 2 #	0	ld Param. 2 ID				Nev	v Par	am. 2 I					Chai	nged Param. 2	?
Old Value 1		140		1	New Value 1				140 F	F			Chan	ged Value 1?	N
Old Value 2				1	New Value 2	2							Chan	ged Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Chan	ged Opt. 1?	N C	old Op	ot. 2		New	Opt.	2		Changed Opt. 2	!? [
Old Condensed Impact	1	Но	t		New Co Impact	ondense	ed		Ext	reme H	leat		Chang Conde	ged ensed Impact?	Y
Old Full Impact	Tempe	ratures >= 14	0 F exc	eed the	maximum	operati	ing ra	ange.							
New Full Impac	tTempe	ratures >= 14	0 F exc	eed the	maximum	operati	ing ra	ange.							
													Chan	ged Full Impac	t N
Old Source	(1st Ca	valry Division	1, 1992)	;											
New Source	TM 9-1	425-472-12, P	ara 2-76	6, Jan 1	980										
Comments															
Change to Soul	roo2 []	Υ		Δ	re There An	v (2) O	ntions	? N	п			Δ,	w Chan	ge to Record?	Υ
Change to Cou				,	ic mererui	<b>y</b> (2) O	ptionic					,	iy Onan	go to recoord.	Ŀ
ID# 100 Su	bsystem	Name		тс	W-GRND				Rule	e 1 #	27	Rule 2 #	<u> </u>	Delete Rule	? N
Old Color	<u> </u>	New Color		1										⊐ hanged Color?	? N
Parameter 1 #	18 OI	। d Param. 1 ID		snow	iepth	Nev	v Para	am. 1 II	D	Sno	w De	pth		nged Param. 1	<u></u>
Parameter 2 #		d Param. 2 ID						am. 2 II	-			•	=	nged Param. 2	
Old Value 1		45		١	New Value 1				45 in					ged Value 1?	N
Old Value 2				١	lew Value 2	: =								ged Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Chang	ged Opt. 1?	N C	old Op	ot. 2		New	Opt. 2	2		- hanged Opt. 2	?
Old Condensed Impact		Snow C	over		New Co			<u> </u>		ep Sno			Chang		Y
Old Full Impact	Total s	now depth >=	45 incl	hes deg	rades effec	tivene	ss by	makin	ng sy	stem s	iting	difficult	•		
New Full Impac	t Total s	now depth >=	45 incl	hes ded	rades effec	tivene	ss by	makin	na sv	stem s	itina	difficult			
rtow r an impac							,		-3-,						
													Chan	ged Full Impac	t N
Old Source	(1st Ca	valry Divisior	1, 1992)	;											
New Source	TM 9-1	425-472-12, F	g. 2-88	, Nov 19	990										
Comments															
Chanas to Com	2	7			ro Thoro An	· (2) O	ntions	2 N				Λ,	w Chan	ige to Pecord?	V

ID# 101 Sub	osystem	Name		TOW-	GRND			Rule	1 # 59	Rule	2#	Delete Rule	? <b>Y</b>
Old Color	1	New Color						_		,	_	Changed Color?	П
Parameter 1 #	17 0	ld Param. 1 ID		snow		New Pa	aram. 1	ID				Changed Param. 1?	
Parameter 2 #	o	ld Param. 2 ID				New Pa	aram. 2	l ID	***************************************			Changed Param. 2?	
Old Value 1		1		New	Value 1							Changed Value 1?	$\overline{\Box}$
Old Value 2				New	Value 2							Changed Value 2?	
Old Operator 1	>	New Opt. 1		Changed	Opt. 1?	Old	Opt. 2		New Opt.	2		Changed Opt. 23	?
Old Condensed Impact		Sno	w		New Con Impact	densed						Changed Condensed Impact?	
Old Full Impact	Snow	> light intensi	ty prod	uces accui	mulatons	which de	egrade	operati	onal effec	ctiven	ess.		
New Full Impact	t												
Old Source	(1st Ca	avalry Divisior	ı, 1992)	;								Changed Full Impact	
New Source	Delete	Rule: TM 9-14	125-472	-12, Para 2	-88, Nov 1	990; Un	usual o	condition	ns makes	no m	entic	on of this impact.	
Comments													
Change to Sour	rce?	Y		Are T	There Any	(2) Optio	ns? [	N			Any	Change to Record?	Y
ID # 102 Sul	hevetor	n Name		TOW	2-AIR			Rule	1# 56	Rule	2#	Delete Rule	? N
Old Color	2	New Color		2	2-7-111			_ reale	33	] Itale	- "	Changed Color?	
Parameter 1 #		ld Param. 1 ID		freezingra		New Pa	aram 1	מו ו	Freezing	Rain		Changed Param. 1?	
Parameter 2 #		old Param. 2 ID				New Pa		٠				Changed Param. 2?	
Old Value 1		0	<del></del>	Nev	Value 1			None				Changed Value 1?	Y
Old Value 2				Nev	Value 2							Changed Value 2?	H
Old Operator 1	>	New Opt. 1	>	Changed	Opt. 1?	N Old	Opt. 2		New Opt.	2		Changed Opt. 2	?
Old Condensed Impact		Freezing	g Rain	<b></b>	New Con Impact	densed		Free	zing Rain			 Changed Condensed Impact?	N
Old Full Impact	Any o	ccurrence of f	reezing	rain may	cause the	missile	to free:	ze to the	rails and	d mak	e firi	ng very difficult.	
New Full Impac	tFiring	the TOW in fr	eezing	rain > non	e is prohil	oited bed	ause t	the warh	lead may	ditona	ate n	ear the aircraft.	
Old Source	(1st C	avalry Division	n, 1992)	);								Changed Full Impact	Y
New Source	TM 55	-1520-236-10,	Para 8-	51, 8-81, A	ug 1994								
Comments													
Change to Soul	rce2	Y		Are	There Any	(2) Optic	ns?	N			Any	/ Change to Record?	Y

			IWE	DA Su	bsyst	em R	lule	S				
ID# 103	Subsystem	Name	том	/2-AIR			Rule	e 1 # <b>60</b>	Rule 2#		Delete Rule?	Y
Old Color	2	New Color							•	C	hanged Color?	
Parameter 1	# 17 OI	ld Param. 1 ID	snow		New P	aram. 1	ID			Chan	ged Param. 1?	
Parameter 2	# OI	d Param. 2 ID			New P	aram. 2	ID			Chan	ged Param. 2?	
Old Value 1		0	Nev	v Value 1						Chang	ged Value 1?	
Old Value 2			Nev	v Value 2						Chang	jed Value 2?	
Old Operator	r 1 >	New Opt. 1	Changed	l Opt. 1? [	Old	Opt. 2		New Opt.	2	CI	hanged Opt. 2?	
Old Condens Impact	sed	Snow		New Con Impact	densed					Change Conde	ed nsed Impact?	
Old Full Impa	act Any oc	currence of snow	fall may caus	e the mis	sile to fr	eeze to	the ra	ils and ma	ke firing v	ery dif	ficult.	
New Full Imp	pact											
										Chang	jed Full Impact	
Old Source	(1st Ca	valry Division, 19	92); 				<del></del>					
New Source	Delete	Rule: TM 9-1425-4	72-12, Para 2	:-88, Nov 1	1990; Un	usual c	onditi	ons makes	no menti	on of th	nis impact.	
Comments												
Change to S	ource?	7	Are 1	There Any	(2) Optio	ns? N	1		An	v Chanc	ge to Record?	Y
ID# 104	Subsystem	Name	TOW	2-AIR			Rule	e 1 # 76	Rule 2#		Delete Rule?	N
Old Color	2	New Color	2			······································			•	Cł	nanged Color?	N
Parameter 1	# <b>12</b> OI	d Param. 1 ID	icinginten	sity	New Pa	aram. 1	ID	Icing Inte	nsity	Chan	ged Param. 1?	N
Parameter 2	# OI	d Param. 2 ID			New Pa	aram. 2	ID 🗍			Chan	ged Param. 2?	
Old Value 1		0	Nev	/ Value 1			None	)		Chang	ed Value 1?	Y
Old Value 2			Nev	v Value 2						Chang	ed Value 2?	
Old Operator	1 >	New Opt. 1 >	Changed	Opt. 1?	N Old	Opt. 2		New Opt.	2	Ct	nanged Opt. 2?	
Old Condens Impact	sed	Icing Aloft		New Con Impact	densed		lc	ing Aloft		Change Conder	ed nsed Impact?	N
Old Full Impa	act Any oc	currence of icing	may cause th	ie missile	to freeze	to the	rails	and make f	iring very	difficu	lt.	
New Full Imp		the TOW in icing i evel is between (~				ecause	the w	arhead may	detonate	near t	he aircraft if	
014 0	(4-t-O-	l. Division 400	00)-				<del></del>			Chang	ed Full Impact	Y
Old Source	(1st Ca	valry Division, 19	92);									· · · · · ·
New Source	TM 55-	1520-236-10, Para	8-51, 8-81, A	ug 1994								
Comments			7									
Change to Se	ource?	1	Are -	There Any	(2) Optio	ns? [N	1		An	/ Chang	ge to Record?	Y

#### IWEDA Subsystem Rules TOW2-GRND ID# 105 Subsystem Name Rule 1# 4 Rule 2# Delete Rule? N 1 Old Color **New Color** Changed Color? Ν Parameter 1 # 16 Old Param. 1 ID slope New Param. 1 ID Slope N Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param, 2 ID Changed Param. 2? 7 Old Value 1 New Value 1 7 degrees Changed Value 1? N New Value 2 Old Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed Slope **New Condensed** Slope Changed Condensed Impact? Impact Impact Old Full Impact | Slope >= 7 degrees degrades siting accuracy. New Full Impact When firing from a vehicle, slope >= 7 degrees degrades siting accuracy Changed Full Impact Y Old Source (1st Cavalry Division, 1992); **New Source** FM 23-1, Para 1-5, Mar 1996 Comments Y N Υ Change to Source? Are There Any (2) Options? Any Change to Record? TOW2-GRND Rule 2# Delete Rule? ID # 106 | Subsystem Name Rule 1# 5 2 2 Changed Color? Ν Old Color **New Color** Parameter 1 # 16 Old Param. 1 ID slope New Param. 1 ID Slope Changed Param. 1? N Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? New Value 1 10 degrees Changed Value 1? N Old Value 1 10 Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? | N | Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed** Old Condensed Slope Slope Changed N Impact Condensed Impact? Impact Old Full Impact | Slope >= 10 degrees exceeds the operational limits. New Full Impact When firing from a vehicle, slope >= 10 degrees exceeds the operational limits. Changed Full Impact Y **Old Source** (1st Cavalry Division, 1992); **New Source** FM 23-1, Para 1-5, Mar 1996 Comments Y N Any Change to Record? Change to Source? Are There Any (2) Options?

****				IWE	DA Sı	ıbsys	tem R	ules				= -	
ID # 107	Subsyste	m Name		TOW	-GRND			Rule	1 # 18	Rule 2	2#	Delete Rule	? N
Old Color	2	New Colo	r	2					<u> </u>			 Changed Color'	? N
Parameter 1	# 22	 Old Param, 1 II		temperat	шге	New F	aram. 1 I	ID	Temper	rature	Chai	nged Param. 1	? N
Parameter 2	#	Old Param. 2 ID	)			New F	aram. 2 !	ID			===	nged Param. 2	
Old Value 1		140		Nev	v Value 1			140 F				ged Value 1?	N
Old Value 2				Nev	v Value 2						Chan	ged Value 2?	_
Old Operato	r 1 >=	New Opt. 1	>=	Changed	l Opt. 1?	N Old	Opt. 2		New Opt	. 2		changed Opt. 2	? 🗀
Old Condens Impact	sed	Ho	t	<u> </u>	New Cor	ndensed		Extre	me Heat	<u> </u>	Chang		Y
Old Full Imp	act Temp	peratures >= 14	0 F ex	ceed the ma	eximum o	perating	range.						
New Full Imp	oact Temp	peratures >= 14	0 F ex	ceed the ma	aximum o	perating	range.						
											Chan	ged Full Impac	t N
Old Source	(1st C	Cavalry Divisio	n, 1992	2); 				<u>.</u>					
New Source	TM 9-	·1425-472-12, F	ara 2-	76, Jan 1980	)				_				
Comments													
Change to S	ource?	Υ		Are 7	There Any	(2) Optic	ns? N			-	Any Chan	ge to Record?	Y
D# 108	Subsyster	m Name		TOW2	-GRND			Rule 1	# 27	Rule 2	#	Delete Rule	? N
Old Color	1	New Color		1					L		С	」 hanged Color?	N
Parameter 1	# 18 (	_ Old Param. 1 ID		snowdep	th	New P	aram. 1 II	D	Snow D	epth		ged Param. 11	
Parameter 2	# 0	Did Param. 2 ID				New P	aram. 2 II	ם			Chan	ged Param. 21	? 💳
Old Value 1		45		New	Value 1			45 in.			Chang	ged Value 1?	N
Old Value 2				New	Value 2						Chang	ged Value 2?	
Old Operator	1 >=	New Opt. 1	>=	Changed	Opt. 1?	N Old	Opt. 2		New Opt.	2	с	hanged Opt. 2	? .
Old Condens Impact	ed	Snow C	over		New Con Impact	densed		Dee	o Snow		Change	ed nsed Impact?	Y
Old Full Impa	act Total	snow depth >=	45 in	ches degrad	les effecti	veness	by makin	ng syst	em sitinç	g difficu	lt.		
New Full Imp	act Total	snow depth >=	45 inc	ches degrad	les effecti	veness	by makin	ng syst	em siting	g difficu	lt.		
Old Source	(1st C	avalry Division	1, 1992	?);							Chang	ged Full Impac	N
New Source	TM 9-	1425-472-12, P	ara 2-8	38, Nov 1990	)				-				
Comments													

Y

Change to Source?

Are There Any (2) Options?

ID # 109 Sut	osystem	Name		TOW2	-GRND			Rule 1	# 59	Rule 2	2 #	Delete Rul	e? <b>Y</b>
Old Color	1	New Color						I	L	ı	(	⊸ Changed Color	?
Parameter 1 #	17 0	ld Param. 1 ID		snow		New Pa	aram. 1	ID	· · · · · · · · · · · · · · · · · · ·		Cha	nged Param.	17
Parameter 2 #	o	ld Param. 2 ID				New Pa	aram. 2	ID D			Cha	nged Param. 2	2?
Old Value 1		1		New	/ Value 1						Char	nged Value 1?	
Old Value 2				New	/ Value 2						Char	nged Value 2?	
Old Operator 1	>	New Opt. 1		Changed	Opt. 1?	Old	Opt. 2	] [	New Opt.	2		Changed Opt.	2?
Old Condensed Impact		Sno	W		New Con- Impact	densed					Chan Cond	ged ensed Impact?	,
Old Full Impact	Snow	> light intensi	ty pro	duces accu	mulatons	which d	egrade	operatio	onal effec	tivenes	ss.		
New Full Impact	t												
Old Source	(1st Ca	avalry Division	1, 1992	·);				··		· <del>······</del>	Char	nged Fuil Impa	ct
New Source	Delete	Rule: TM 9-14	125-47	2-12, Para 2	-88, Nov 1	990; Un	usual c	ondition	ns makes	no me	ntion of	this impact.	
Comments													
	L							<u></u>					
Change to Sour	ce?	Y		Are 7	There Any	(2) Optio	ns?	N		4	Any Cha	nge to Record	? Y
												59 P	
								1		1			
	bsystem	-		TRACKED	PLATFOR	M		Rule 1	# 7	Rule 2	L	Delete Rul	<u> </u>
Old Color	1 22 O	New Color ld Param. 1 ID		1 tomporate	IFO.	Now B	aram. 1	יח	Tempera			Changed Color Inged Param. 1	
Parameter 1 # Parameter 2 #		ld Param. 1 ID ld Param. 2 ID		temperati	11.6	7	aram. 2		rempera	ature		inged Param. 2 inged Param. 2	
Old Value 1		-25	<u> </u>	Nev	/ Value 1	INEW P	aiaiii. 2	- 25 F				nged Palain. 2 nged Value 1?	Z'
Old Value 2		-23			Value 2			- 201				nged Value 1?	
Old Operator 1	<=	New Opt. 1	<=	Changed	_	N Old	Opt. 2		New Opt.	2		Changed Opt.	22
Old Condensed	Ļ	Col-		Unangeo	New Con		Opt. 2		me Cold		 Chan		
Impact			<b>.</b>		Impact	4011004		<u> </u>				ensed Impact?	, [Ϋ]
Old Full Impact	Tempe	eratures <= -2	5 F rec	uire the ins	tallation o	f a wint	erizatio	n kit.					
New Full Impac	tTempe	eratures <= - 2	5 F re	quire the in:	stallation	of a wint	erizatio	n kit.					
Old Source	14c+ C	avalry Divisio	100	)\.			<del></del>				Chai ⊺	nged Full Impa	ct N
Old Source	(1St C	avairy Division	1, 1992	£);							]		
New Source	TM 9-2	2350-264-10-1,	Page	1-16, Mar 1	997								
Comments													
Change to Sour	rce?	Υ		Δre <sup>-</sup>	There Any	(2) Ontic	ns? 「i	N			Any Cha	nge to Record	? Y
		-		,		,_, _p.,c	···				,		نــا

	·		177	<i>DA</i> 00	absysi	.CIII IX	uics					
ID# 111 S	ubsystem Name	·····	TRACKED	PLATFO	RM		Rule 1	# 27	Rule 2	#	Delete Ru	le? N
Old Color	2 New Co	lor	2					L	J		 Changed Colo	r? N
Parameter 1 #	18 Old Param. 1	ID	snowdep	th	New P	aram. 1 I	ID	Snow D	epth	Cha	anged Param.	1? N
Parameter 2 #	Old Param. 2	ID			New P	aram. 2 i	ID			 Cha	anged Param.	2?
Old Value 1	45		Nev	v Value 1			45 in.			Cha	nged Value 1?	N
Old Value 2			Nev	Value 2						Cha	nged Value 2?	
Old Operator 1	>= New Opt. 1	>=	Changed	Opt. 1?	N Old	Opt. 2	N	lew Opt.	2		Changed Opt.	2?
Old Condense Impact	d Snov	Cover		New Co Impact	ndensed		Deep	Snow		Chan Cond	ged lensed Impact	? <b>Y</b>
Old Full Impac	t Total snow depth	>= 45 in	iches makes	mobility	of the sy	stem ve	ery diffic	uit.				
New Full Impa	ct Total snow depth	>= 45 in	iches makes	mobility	of the sy	stem ve	ery diffic	ult.				
Old Source	(1st Cavalry Divis	ion, 199	2);							Chai	nged Full Impa	ct N
New Source	TM 9-2350-264-10									1		
Comments		· · · · · · · · · · · · · · · · · · ·										
Change to Sou	ırce? Y		Are 7	There Any	(2) Optio	ns? N	 			Any Cha	nge to Record	? Y
	ubsystem Name		TRACKED	PLATFO	RM		Rule 1	# 31	Rule 2	<u> </u>	Delete Rul	
Old Color Parameter 1 #	1 New Co 18 Old Param. 1		1 snowdep	th	Now P	aram. 1 I	ח	Snow D	enth		anged Param.	
Parameter 2#			Silowdep		ᆜ	aram. 2 I	L	SHOW D	сриі		anged Param.	
Old Value 1	30		New	/ Value 1			30 in.				nged Value 1?	<u> </u>
Old Value 2			]	/ Value 2							nged Value 2?	<u> </u>
Old Operator 1	>= New Opt. 1	>=	Changed		N Old	Opt. 2	N	lew Opt.	2		Changed Opt.	
Old Condense		Cover		New Co				Snow		Chan	• .	Y
•	Total snow depth	>= 30 in	ches makes	·	of the sy	stem di	fficult.					
New Full Impa	ct Total snow depth	>= 30 in	ches makes	mobility	of the sy	stem di	fficult.					
Old Source	(1st Cavalry Divis	ion. 199	2):							Char	nged Full Impa	ct N
New Source	FM 31-71, Para 1-	ı2a(2), J	un 1971									
Comments												
Change to Sou	ırce? Y		Are 1	There Any	(2) Optio	ns? N	]		-	Any Cha	nge to Record	? <b>Y</b>

### **IWEDA Subsystem Rules** ID# 113 Subsystem Name TRACKED PLATFORM Rule 1# 41 Rule 2# Delete Rule? Old Color New Color Changed Color? visibility Parameter 1 # 26 Old Param. 1 ID New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 3000 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? New Opt. 2 Changed Opt. 1? Old Opt. 2 Old Operator 1 New Opt. 1 Changed Opt. 2? Old Condensed Reduced Visibility New Condensed Changed Impact Impact Condensed Impact? Visibility <= 1.8 miles (3000 m) reduces the operating speed. Old Full Impact New Full Impact Changed Full Impact **Old Source** (1st Cavalry Division, 1992); Delete Rule: Personal interview with CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army **New Source** National Guard, Ft. Bragg, NC. 12 Nov 1997. Not significant . Comments Υ Are There Any (2) Options? N Υ Change to Source? Any Change to Record? ID# 114 TRACKED PLATFORM Rule 1# 42 Rule 2# Delete Rule? N Subsystem Name Old Color **New Color** Changed Color? N Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 2000 New Value 1 2000 meters Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2? **Old Condensed** Reduced Visibility **New Condensed** Reduced Visibility Changed Condensed Impact? Impact Impact Old Full Impact Visibility <= 1.2 miles (2000 m) greatly reduces the operating speed. New Full Impact Visibility <= 1.2 miles (2000 m) greatly reduces the operating speed. Changed Full Impact N Old Source (1st Cavalry Division, 1992); Personal interview with CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, New Source Ft. Bragg, NC. 12 Nov 1997.

N

Are There Any (2) Options?

Y

Comments

Change to Source?

## **IWEDA Subsystem Rules** TRACKED PLATFORM ID# 115 Subsystem Name Rule 1# 52 Rule 2# Delete Rule? N Changed Color? Old Color **New Color** N Parameter 1 # Old Param. 1 ID rain New Param. 1 ID Rain Changed Param. 1? N Old Param. 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Value 1 New Value 1 Changed Value 1? Light Old Value 2 New Value 2 Changed Value 2? Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? Old Operator 1 New Opt. 1 New Opt. 2 New Condensed Rain Old Condensed Precipitation Changed Condensed Impact? Impact Impact Old Full Impact Rain > light intensity makes trafficability of the system difficult. New Full Impact Rain > light intensity makes trafficability of the system difficult. Changed Full Impact | N Old Source (1st Cavalry Division, 1992); **New Source** Personal interview with CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, Ft. Bragg, NC. 12 Nov 1997. Comments Are There Any (2) Options? Change to Source? Υ N Any Change to Record? ID# 116 Subsystem Name TRACKED PLATFORM Rule 1# 54 Rule 2# Delete Rule? N Old Color **New Color** Changed Color? N Old Param. 1 ID rain New Param. 1 ID Rain Changed Param. 1? Ν Parameter 1 # Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 2 New Value 1 Moderate Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? | N | Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed** Heavy Rain Changed Old Condensed Precipitation Condensed Impact? Impact Impact Old Full Impact Rain > moderate intensity makes trafficability of the system very difficult. New Full Impact Rain > moderate intensity makes trafficability of the system very difficult. Changed Full Impact | N Old Source (1st Cavalry Division, 1992); Personal interview with CSM Donald Schwab HHC1-52 Armored Battalion, North Carolina Army National Guard, **New Source** Ft. Bragg, NC. 12 Nov 1997. Comments

N

Are There Any (2) Options?

Y

Change to Source?

Y

## **IWEDA Subsystem Rules** ID# 117 Subsystem Name TRQ-32V Rule 1# 89 Rule 2# Delete Rule? Old Color **New Color** Changed Color? Parameter 1 # 15 relativehumidity Old Param. 1 ID New Param. 1 ID Changed Param. 1? New Param. 2 ID Parameter 2 # Old Param, 2 ID Changed Param. 2? Old Value 1 65 New Value 1 Changed Value 1? New Value 2 Old Value 2 Changed Value 2? Old Operator 1 Changed Opt. 1? Old Opt. 2 New Opt. 1 New Opt. 2 Changed Opt. 2? Old Condensed **Relative Humidity New Condensed** Changed Impact Impact Condensed Impact? Old Full Impact | Humidity >= 65% decreases system effectiveness. New Full Impact Changed Full Impact Old Source (1st Cavalry Division, 1992); Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997. **New Source** Comments Change to Source? Y Are There Any (2) Options? N Any Change to Record? Υ TRQ-32V ANTENNA Delete Rule? ID# 118 Subsystem Name Rule 1# 32 Rule 2# Old Color 2 **New Color Changed Color?** New Param. 1 ID 23 Old Param. 1 ID thunderstorm Changed Param. 1? Parameter 1 # Old Param, 2 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Changed Value 1? Old Value 1 New Value 1 Yes New Value 2 Changed Value 2? Old Value 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? **New Condensed** Changed Thunderstorm Old Condensed Impact Condensed Impact? Impact Old Full Impact | Any occurrence of thunderstorms create a potentially significant hazard to equipment and operators. The antenna must be stowed during a storm. New Full Impact Changed Full Impact Old Source (1st Cavalry Division, 1992); **New Source** Delete Rule: No reference or record of system in DAPAM 25-30, Army Index of Publications and Forms, Oct 1997. Comments

N

Are There Any (2) Options?

Υ

Change to Source?

Any Change to Record?

Y

ID# 119 Su	bsystem Name	TRQ-32V	ANTENNA	\	F	Rule 1 # 64	Rule	2#[	Delete	Rule? Y
Old Color	1 New Color								Changed (	Color?
Parameter 1 #	21 Old Param. 1 ID	surfacewind	speed	New Para	ım. 1 ID[				Changed Para	am. 1?
Parameter 2 #	Old Param. 2 ID			New Para	ım. 2 ID				Changed Para	am. 2?
Old Value 1	15	Nev	v Value 1						Changed Value	e 1?
Old Value 2		Nev	v Value 2						Changed Value	e 2?
Old Operator 1	> New Opt. 1	Changed	i Opt. 1?	Old Op	t. 2	New Op	ot. 2		Changed (	Opt. 2?
Old Condensed Impact	Surface V	Vind	New Cond Impact	densed					Changed Condensed Imp	pact?
Old Full Impact	Surface wind speed >	= 15 kts degrad	es the DF p	performan	ce.					
New Full Impact										
Old Source	(1st Cavalry Division,	1992);							Changed Full I	mpact
New Source	Delete Rule: No refer	ence or record o	f system ir	1 DAPAM 2	25-30, Aı	rmy Index o	f Public	ation	s and Forms,	Oct 1997.
Comments									,	
Change to Sour	ce? Y	Are <sup>-</sup>	There Any (	(2) Options	? N			Any	Change to Rec	cord? Y
								<b>0</b> " [		Dulso V
	osystem Name	TRQ-32V	ANTENNA		R	tule 1 # 66	Rule	2#[		Rule? Y
Old Color	2 New Color					tule 1 # 66	Rule	2#[	Changed C	Color?
Old Color Parameter 1 #	New Color Old Param. 1 ID	TRQ-32V		New Para	m. 1 ID[	Rule 1 # 66	Rule	2#[	Changed C	Color?
Old Color Parameter 1 # Parameter 2 #	New Color Old Param. 1 ID Old Param. 2 ID	surfacewind	speed		m. 1 ID[	tule 1 # 66	Rule		Changed Para Changed Para	Color? am. 1? am. 2?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1	New Color Old Param. 1 ID	surfacewind	speed v Value 1	New Para	m. 1 ID[	Rule 1 # 66	Rule		Changed C Changed Para Changed Para Changed Value	Color?am. 1?am. 2?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2	New Color  21 Old Param. 1 ID  Old Param. 2 ID  25	surfacewind	v Value 1	New Para	m. 1 ID[ m. 2 ID				Changed C Changed Para Changed Para Changed Value Changed Value	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1	New Color  21 Old Param. 1 ID  Old Param. 2 ID  25  >= New Opt. 1	surfacewinds  Nev  Nev  Changed	speed  v Value 1 v Value 2 Opt. 1?	New Para	m. 1 ID[ m. 2 ID	Rule 1 # 66			Changed Changed Para Changed Para Changed Value Changed Value Changed Changed C	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2	New Color  21 Old Param. 1 ID  Old Param. 2 ID  25  >= New Opt. 1	surfacewinds  Nev  Nev  Changed	v Value 1	New Para	m. 1 ID[ m. 2 ID				Changed C Changed Para Changed Para Changed Value Changed Value	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact	New Color  21 Old Param. 1 ID  Old Param. 2 ID  25  >= New Opt. 1	surfacewinds  Nev  Nev  Changed	v Value 1 v Value 2 Opt. 1? New Conc	New Para New Para Old Opt	m. 1 ID[ m. 2 ID	New Op			Changed Control Changed Para Changed Para Changed Value Changed Value Changed Changed Changed	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact	2 New Color 21 Old Param. 1 ID Old Param. 2 ID 25 >= New Opt. 1 Surface V Surface wind speed >	surfacewinds  Nev  Nev  Changed	v Value 1 v Value 2 Opt. 1? New Conc	New Para New Para Old Opt	m. 1 ID[ m. 2 ID	New Op			Changed Control Changed Para Changed Para Changed Value Changed Value Changed Changed Changed	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	2 New Color 21 Old Param. 1 ID Old Param. 2 ID 25 >= New Opt. 1 Surface V Surface wind speed >	surfacewinds  Nev  Nev  Changed	v Value 1 v Value 2 Opt. 1? New Conc	New Para New Para Old Opt	m. 1 ID[ m. 2 ID	New Op			Changed Control Changed Para Changed Para Changed Value Changed Value Changed Changed Changed	Color? am. 1? am. 2? act?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact	2 New Color 21 Old Param. 1 ID Old Param. 2 ID 25 >= New Opt. 1 Surface V Surface wind speed >	surfacewinds  New New Changed  Vind  = 25 kts severely	v Value 1 v Value 2 Opt. 1? New Conc	New Para New Para Old Opt	m. 1 ID[ m. 2 ID	New Op			Changed Condensed Imp	Color? am. 1? am. 2? act?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact	2 New Color 21 Old Param. 1 ID Old Param. 2 ID 25 >= New Opt. 1 Surface V Surface wind speed >	surfacewinds  New New Changed Vind  = 25 kts severely	v Value 1 v Value 2 Opt. 1? New Conclumpact y degrades	New Para New Para Old Optionsed sthe DF pe	m. 1 ID[ m. 2 ID	New Op	ot. 2		Changed Changed Para Changed Value Changed Value Changed Changed Changed Changed Changed Changed Condensed Imp	Color?
Old Color  Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2  Old Operator 1  Old Condensed Impact  Old Full Impact  New Full Impact  Old Source	2 New Color 21 Old Param. 1 ID Old Param. 2 ID 25 >= New Opt. 1 Surface V Surface wind speed >	surfacewinds  New New Changed Vind  = 25 kts severely	v Value 1 v Value 2 Opt. 1? New Conclumpact y degrades	New Para New Para Old Optionsed sthe DF pe	m. 1 ID[ m. 2 ID	New Op	ot. 2		Changed Changed Para Changed Value Changed Value Changed Changed Changed Changed Changed Changed Condensed Imp	Color?

ID # 121 Sub	system	Name		TSQ-13	8 ANTENN	Ą		Rule	e 1 # 32	Ru	le 2 #		Delete Rul	e? [	N
Old Color	2	New Color		2			-	_	1			Cha	nged Color	? [	N
Parameter 1 #	<b>23</b> OI	d Param. 1 ID		thunder	storm	New P	aram. 1	ID	Thunde	erstori	n	Change	d Param.	1? [	N
Parameter 2 #	OI	d Param. 2 ID				New P	aram. 2	ID 🗌				Change	d Param. 2	2? [	
Old Value 1		1		N	ew Value 1			Yes			1	Changed	d Value 1?	Ī	Υ
Old Value 2				N	ew Value 2						Ī	Changed	d Value 2?	Ī	
Old Operator 1	=	New Opt. 1	=	Change	ed Opt. 1?	N Old	Opt. 2		New Op	t. 2		Chai	nged Opt.	2? [	$\equiv$
Old Condensed Impact		Thunder	storm		New Cor Impact	ndensed		Thu	ınderstor	m		Changed Condense	ed Impact?	, [	N
Old Full Impact		currence of the				entially s	ignifica	ant haz	zard to ed	uipm	ent an	d operate	ors. The		
New Full Impact						entially s	ignifica	ant ha	zard to ed	quipm	ent an	d operate	ors. The		=
	antenn	a must be sto	wed d	uring a s	torm.										
Old Source	Mat Ca	valry Divisior	4002	· · · · · · · · · · · · · · · · · · ·								Changed	i Full Impa	ct [	N
Old Source	( 15t Ca	vally Division	1, 1992	.,,											
New Source	TM 11-	5820-773-15, F	ara 2	-6.1, Jul 1	1983										
Comments								-		•					
															_
Change to Source	ce?	(		Ar	e There Any	(2) Optio	ns?	N			Any	/ Change	to Record	?	Y
								7							
L	system				8 ANTENN	Α		Rule	e 1 # 56	Ru	le 2 #		Delete Rul	L	N
Old Color	2	New Color		1			4	,D	<b></b>	- n-:		-	nged Color	L	Y
Parameter 1 #		d Param. 1 ID		freezin	grain	=	aram. 1	느	Freezi	ng Kai	n 		d Param.	-	N
Parameter 2 #	OI	d Param. 2 ID	<u> </u>		land Value 4	New P	агат. 2				7		ed Param. 2	_	_
Old Value 1		0			lew Value 1			Non	e 		_	•	d Value 1?	<u>ا</u> 1	Y
Old Operator 4		Now Ont 4			lew Value 2	N Old	0-4.0		7 N 0-	<b>.</b> [			d Value 2?	] 22 [	닉
Old Operator 1		New Opt. 1	->	Chang	ed Opt. 1?		Opt. 2		New Op				nged Opt.		_
Old Condensed Impact		Freezing	Rain		New Cor Impact	naensea		Fre	ezing Ra	ın		Changed Condense	ed Impact?	,	N
Old Full Impact		currence of fi		g rain red	luces anten	na effect	ivenes	s by d	egrading	powe	outp	ut of ante	nna. May	also	5
New Full Impact				enna effe	ctiveness										一
		•													
												Change	d Full Impa	ct	N
Old Source	(1st Ca	valry Divisior	1, 1992	2);											
New Source	Operat	or Guide "Tra	ilBlaz	er". MVP	Corporatio	n. Mar 19	93								
					•										
Comments				-											<u> </u>
COMMENTS															
Change to Sour	ce?	Υ		Ar	e There Any	(2) Optio	ns?	N			An	y Change	to Record	? [	Y

						-	*				
ID# 123 Su	ubsystem Na	me	TSQ-138	ANTENNA		R	ule 1 # 69	Rule 2#		Delete Rule	? N
Old Color	1	New Color [	1						C	nanged Color?	? N
Parameter 1 #	21 Old P	aram. 1 ID	surfacewind	speed	New Param	ı. 1 ID[	Surface Win	d Speed	Chan	ged Param. 1	? N
Parameter 2 #	Old P	aram. 2 ID			New Param	. 2 ID			Chan	ged Param. 2	?
Old Value 1		35	Nev	v Value 1		45	kts.		Chang	ed Value 1?	Y
Old Value 2			Nev	v Value 2					Chang	ed Value 2?	
Old Operator 1	>= Ne	w Opt. 1	>= Changed	Opt. 1?	Old Opt.	2	New Opt.	2	CI	nanged Opt. 2	?
Old Condensed Impact	d	Surface W	ind	New Cond Impact	densed	Stro	ng Surface W	ind	Change Conde	ed nsed Impact?	Y
Old Full Impact	Surface w range. DF	ind speed >= is also degr	= 35 kts preclud aded due to mo	les extend evement of	ng the ante	nna. Tl	nis degrades	LOS and	reduces	the intercep	ot
New Full Impac	Surface w degrades		= 45 kts. preclud	des extend	ing antenna	, degra	ades LOS, red	luces inte	ercept r	ange and	
Old Source	(1st Caval	ry Division,	1992);						Chang	ed Full Impac	t Y
New Source	FM 34-81-	1, Appendix	I-5, Dec 1992								
Comments											
Change to Sou	rce? Y				(2) Options?	N	111 - 111			e to Record?	Y
										·	
										1	
ID# 124 Su	ıbsystem Na			ANTENNA		R	ule 1 # 73	Rule 2 #	L	Delete Rule	
Old Color		New Color	2						_	nanged Color?	
Parameter 1 #		aram. 1 ID	surfacewinds	speed	New Param		Surface Win	d Speed	_	ged Param. 1	<u> </u>
Parameter 2 #	Old P	aram. 2 ID			New Param	l				ged Param. 2	
Old Value 1		43		v Value 1		78	kts.		_	ed Value 1?	Y
Old Value 2				v Value 2						ed Value 2?	
Old Operator 1	>= Ne	w Opt. 1	>= Changed	Opt. 1? [ ]	Old Opt.	2	New Opt.	2		nanged Opt. 2	? 💹
Old Condensed Impact	d	Surface W	ind	New Cond Impact	densed \	/ery St	rong Surface	Wind	Change Conder	ed nsed Impact?	Y
Old Full Impact	Surface w	ind speed >=	= 43 kts exceeds	s the opera	iting limits.						
New Full Impac	Surface w	ind speed >=	= 78 kts. exceed	ls the oper	ating limits.						
									Chang	ed Full Impac	t Y
Old Source	(1st Caval	ry Division,	1992);								
New Source	FM 34-81-	1, Appendix	I-5, Dec 1992								
Comments											

## **IWEDA Subsystem Rules** ID # 125 Rule 2# Subsystem Name **UH-60 ENGINE** Rule 1# 63 Delete Rule? Old Color **New Color** Changed Color? 21 Parameter 1 # Old Param. 1 ID surfacewindspeed New Param. 1 ID Surface Wind Speed Changed Param. 1? Old Param. 2 ID New Param. 2 ID Parameter 2 # Changed Param. 2? Old Value 1 30 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2? Old Condensed **Surface Wind** New Condensed Changed Impact Impact Condensed Impact? Old Full Impact New Full Impact Changed Full Impact **Old Source** (1st Cavalry Division, 1992); **New Source** Delete Rule: Replaced by Ssytem Rule ID# 252 Comments Change to Source? Are There Any (2) Options? N Any Change to Record? ID# 126 Subsystem Name **UH-60 ENGINE** Rule 1 # 68 Rule 2# Delete Ruie? Y Old Color 2 **New Color** Changed Color? Parameter 1 # 21 Old Param. 1 ID surfacewindspeed New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 45 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? New Opt. 2 Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 Changed Opt. 2? Old Condensed **Surface Wind New Condensed** Changed Condensed Impact? Impact Impact Old Full Impact Surface wind speed > 45 kts exceeds the system operating limits to start engines. New Full Impact Changed Full Impact **Old Source** (1st Cavalry Division, 1992); New Source Delete Rule: Not necessary, covered in rule SYS ID# 252 Comments Change to Source? Υ Are There Any (2) Options? N Any Change to Record? Y

#### **IWEDA Subsystem Rules VEESS - SMOKE GENERATOR** Delete Rule? ID# 127 Subsystem Name Rule 1# Rule 2# Changed Color? Old Color **New Color** Changed Param. 1? Parameter 1 # Old Param. 1 ID stability New Param. 1 ID Stability Old Param. 2 ID Changed Param. 2? New Param. 2 ID Parameter 2 # New Value 1 Stable Changed Value 1? Old Value 1 Changed Value 2? Old Value 2 New Value 2 Changed Opt. 1? N Old Opt. 2 Changed Opt. 2? New Opt. 1 New Opt. 2 Old Operator 1 New Condensed **Neutral Atmosphere** Changed Old Condensed **Neutral Atmosphere** Condensed Impact? Impact Impact Old Full Impact Neutral or unstable conditions makes the production of smoke ineffective due to dissipation. New Full Impact Neutral or unstable conditions makes the production of smoke ineffective due to dissipation. Changed Full Impact | N Old Source (1st Cavalry Division, 1992); FM 3-50, pp. 89-91, Sep 1996 **New Source** Comments Any Change to Record? Y Are There Any (2) Options? N Change to Source? **VEESS - SMOKE GENERATOR** Rule 1 # 72 Rule 2# Delete Rule? N ID# 128 Subsystem Name Changed Color? N Old Color New Color Changed Param. 1? surfacewindspeed New Param. 1 ID **Surface Wind Speed** Parameter 1 # 21 Old Param. 1 ID New Param. 2 ID Changed Param. 2? Parameter 2 # Old Param. 2 ID Changed Value 1? Ν 10 New Value 1 10 kts. Old Value 1 Changed Value 2? Old Value 2 New Value 2 Changed Opt. 2? Changed Opt. 1? N Old Opt. 2 New Opt. 2 Old Operator 1 New Opt. 1 Surface Wind Surface Wind **New Condensed** Changed Old Condensed Condensed Impact? Impact Impact Old Full Impact Surface wind speed >= 10 kts reduces smoke effectiveness due to dissipation. New Full Impact Surface wind speed >= 10 kts reduces smoke effectiveness due to dissipation.

Y

Old Source

**New Source** 

Comments

Change to Source?

(1st Cavalry Division, 1992);

FM 3-50, Page 89-91, Sep 1996

N

Are There Any (2) Options?

Any Change to Record?

Υ

Changed Full Impact N

		IWEDA Sui	hsystem R	ules		<del></del>		
1D # 400 Cub	auston Name (	VRC-46		Rule 1 # 19	Duis 2#		elete Rule?	V
ID # 129 Sub	system Name  New Color	VRC-46		Rule I # 19	Rule 2#		ed Color?	-
L	22 Old Param. 1 ID	temperature	New Param, 1 I	n			Param. 1?	_
Parameter 2 #	Old Param. 2 ID	temperature	New Param. 21				Param. 2?	_
Old Value 1	85	New Value 1	New Falaili. 21	<u> </u>		Changed V		
	03	New Value 2				•		_
Old Operator 4	Now Ont 4	Changed Opt. 1?	Old Opt. 2	New Opt.		Changed V		<u></u>
Old Operator 1	>= New Opt. 1	New Cond		New Opt.			ed Opt. 2?	
Old Condensed Impact	Hot	Impact	Jenseu		ł	Changed Condensed	Impact?	
Old Full Impact	Temperatures >= 85 F	cause radios to fail due to	o heat buildup.					
New Full Impact								
						Changed F	ull Impact	
Old Source	(1st Cavalry Division,	1992);				Onangoa r	an impact	L
N 0	D-1-4- D-1 TM 44-F0	00 404 40 0 4 4005 0-	tada Manual		an of hot	4		
New Source	anywhere.	20-401-10-2, Aug 1995. Op	erator s Manuai	makes no ment	ion or no	temperatu	res	
Comments								
Change to Source	ce? Y	Are There Any	(2) Options? N	 N	An	y Change to	Record?	Υ
		•		_		,		L
ID# 130 Sub	system Name	WATER CONSUMPTION	ON	Rule 1 # 19	Rule 2#	De	elete Rule?	N
Old Color	1 New Color	1		L			ed Color?	N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 I	D Tempera	iture	_	Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 I				Param. 2?	
Old Value 1	85	New Value 1	]	85 F		່ Changed \		N
Old Value 2		New Value 2				Changed \		
Old Operator 1	>= New Opt. 1	>= Changed Opt. 1?	N Old Opt. 2	New Opt.	2	_ `	ed Opt. 2?	$\vdash$
Old Condensed	Hot	New Con		Hot		 Changed	,	N
Impact		Impact				Condensed	Impact?	
Old Full Impact	Temperatures >= 85 F	require a soldier to incre	ase his water co	nsumption.				
New Full Impact	Temperatures >= 85 F	require a soldier to incre	ase his water co	nsumption.				
rton r all impaol	Tomporataroo - oo .							
						Changed F	-ull Impact	N
Old Source	(1st Cavalry Division,	1992);				-	-	
New Source	FM 21-10-1, Table 2-3,	Oct 1989						
HEW COULCE	1 m 21-10-1, Table 2-3,	, 001 1000						
Comments								

Change to Source?

Are There Any (2) Options?

													_
ID # 131 Sub	system	n Name	•	WATER CO	NSUMPT	TION		Rule 1#	20	Rule 2	2#	Delete Rule	? N
Old Color	2	New Color		2				ı				Changed Color	N
Parameter 1 #	22 0	⊐ 9id Param. 1 ID		temperat	ure	New F	aram. 1	ID T	empera	ture		Changed Param. 1	? N
Parameter 2 #	<u> </u>	ld Param. 2 ID				New F	Param. 2	ID al				Changed Param. 2	?
Old Value 1		95		Nev	v Value 1			95 F				Changed Value 1?	N
Old Value 2				Nev	v Value 2						c	hanged Value 2?	
Old Operator 1	>=	New Opt. 1	>=	Changed	l Opt. 1?	N Old	Opt. 2	Ne	w Opt.	2		Changed Opt. 2	? 🗀
Old Condensed Impact		Hot			New Co	ndensed		Но	ot			hanged ondensed Impact?	N
Old Full Impact		eratures >= 95 must be readil			er to grea	atly incre	ase his v	water con	sumptio	on. Lar	ge q	uantities of potabl	е
New Full Impact	Tempe		F requ	ire a soldi	er to grea	atly incre	ase his v	water cons	sumptio	on. Lar	ge q	uantities of potabl	е
Old Source	(1st Ca	avalry Divisior	ı, 1992	));							<b>C</b>	hanged Full Impac	t N
New Source	FM 21	-10-1, Table 2-	3, Oct	1989									
Comments													
ID # 132 Sub	system	Name		WHEELED	PLATFO	RM		Rule 1#	29	Rule 2	2 #	Delete Rule	? N
Old Color	1	New Color		1								Changed Color?	N
Parameter 1 #	18 O	ld Param. 1 ID		snowdep	th	New F	aram. 1	ID Tota	I Snow	Depth		Changed Param. 11	? <b>Y</b>
Parameter 2 #	<b></b>	ld Param. 2 ID				New F	aram. 2 l	ID			₹,	Changed Param. 21	· 🦳
Old Value 1		6		Nev	/ Value 1			6 in.				hanged Value 1?	N
Old Value 2				Nev	/ Value 2						С	hanged Value 2?	Ħ
Old Operator 1	>=	New Opt. 1	>	Changed	Opt. 1?	Y Old	Opt. 2	Ne	w Opt.	 2		Changed Opt. 2	? 🗔
Old Condensed Impact		Snow C	over	<u>-</u>	New Co	ndensed	Mo	oderate Si	now Co	ver		nanged ondensed Impact?	Y
Old Full Impact	Total s	now depth >=	6 inch	nes makes	the mobi	lity of the	system	difficult.					
New Full Impact	Total s	snow depth > 6	inche	es reduces	the mobi	lity of the	e system	and incr	eases d	lriving	time		
Old Source	(1st Ca	avalry Division	, 1992	);							C	hanged Full Impac	t Y
New Source	FM 34-	-130, Figure B-	20, Ju	ly 1994							1		
Comments													
Change to Sourc	e? [	Y		Are <sup>-</sup>	There Any	/ (2) Optio	ons? N	i			Any C	Change to Record?	Y

				IWE	DA Su	bsys	tem R	tule	es					
ID # 133 Subs	system	Name	W	/HEELED	PLATFO	RM		Rı	ule 1#	30	Rule 2	ŧ	Delete Rule	N
Old Color	2	New Color	7	2			· · · · · · · · · · · · · · · · · · ·	J				С	hanged Color?	N
Parameter 1 #	18 0	d Param. 1 ID		snowdep	th	New P	aram. 1	ID	Tota	I Snow	Depth	Chan	ged Param. 1?	Y
Parameter 2 #	OI	d Param. 2 ID				New P	aram. 2	ID [				Chan	ged Param. 2?	
Old Value 1		20		Nev	v Value 1	_ 		18	in.			 Chang	ged Value 1?	Y
Old Value 2				Nev	v Value 2							Chang	ged Value 2?	F
Old Operator 1	>=	New Opt. 1	>=	Change	l Opt. 1?	N Old	Opt. 2		Ne	w Opt.	2	С	hanged Opt. 21	, =
Old Condensed Impact		Snow C	over		New Cor	ndensed		-	Deep S	inow		Chang Conde	ed nsed Impact?	Y
Old Full Impact	Total s	now depth >=	20 inch	nes makes	the mob	ility of th	e syste	m v	ery dif	ficult a	nd exce	eds the	operating limi	ts.
New Full Impact	Total s time.	now depth >=	18 inch	nes makes	s mobility	of the s	ystem v	егу	difficu	It and s	significa		eases driving	Υ
Old Source	(1st Ca	valry Division	, 1992);						-			Onang	jou i un mipuo	<u> </u>
New Source	FM 34-	130, Figure B	·20, July	/ 1994		•		-					•	
Comments														
ID # 134 Sub	system	Name	V	VHEELED	PLATFO	RM:		R	ule 1#	52	Rule 2	¥	Delete Rule	? N
Old Color	2	New Color	-	1				,		L		С	_ hanged Color?	Y
Parameter 1 #	14 0	ld Param. 1 ID	-,-	rain		New F	aram. 1	ID		Rain	1	Char	iged Param. 1?	N
Parameter 2 #	<u> </u>	ld Param. 2 ID				New F	aram. 2	ID				Char	iged Param. 2?	· [
Old Value 1		1		Ne	w Value 1			Lig	ght			Chan	ged Value 1?	Y
Old Value 2				Ne	w Value 2				-			Chan	ged Value 2?	
Old Operator 1	>	New Opt. 1	>	Change	Opt. 1?	N Old	Opt. 2		Ne	w Opt.	2	c	hanged Opt. 2°	?
Old Condensed Impact		Precipit	ation		New Co Impact	ndensed			Rai	i <b>n</b>		Chang Conde	ed nsed Impact?	Y
Old Full Impact	Rain >	light intensity	/ makes	mobility	of the sy	stem ver	y difficu	ılt.						,
New Full Impact		light intensity ses driving tir		mobility	of the sy	stem diff	icult du	e to	slippe	ry and	or mud	dy cond	itions and	
												Chan	ged Full Impac	Y
Old Source	(1st Ca	avalry Division	1, 1992)	;										
New Source	TM 9-2	2320-280-10, P	ara 2-24	1, 2-26, Oc	t 1986									

Y

Comments

Change to Source?

Are There Any (2) Options?

		IWEDA Sul	osystem Ru	iles			
ID # 135 Su	bsystem Name	WHEELED PLATFOR	M	Rule 1 # 55	Rule 2 #	Delete Rule?	? N
Old Color	2 New Color	2			Cl	nanged Color?	N
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 ID	Freezing F	Rain Chan	ged Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID	)	Chan	ged Param. 2?	
Old Value 1	1	New Value 1	L	.ight	Chang	ed Value 1?	Y
Old Value 2		New Value 2			Chang	ed Value 2?	
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Cł	nanged Opt. 2?	,
Old Condensed Impact	Freezing Rain	New Cond Impact	lensed	Freezing Rain	Change Conder	ed ised Impact?	N
Old Full Impact	Freezing rain > light inter	isity may significantly	degrades mobilit	y and speed.			
New Full Impac	t Freezing Rain > light inte	nsity will significantly o	degrade mobility	and significantly	y increase drivi	ng time.	
					Chang	ed Full Impact	Y
Old Source	(1st Cavalry Division, 199	2);		4=			
New Source	TM 9-2320-280-10, Para 2-	·22, Oct 1986					
Comments							
Change to Sour	rce? Y	Are There Any (2	2) Options? N		Any Chang	e to Record?	Y
ID # 136 Su	bsystem Name	WHEELED PLATFOR	W	Rule 1 # <b>56</b> F	Rule 2#	Delete Rule?	N
Old Color	1 New Color	1			Ch	anged Color?	N
Parameter 1 #	10 Old Param. 1 ID	freezingrain	New Param. 1 ID	Freezing R	tain Chang	ged Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Chang	ged Param. 2?	
Old Value 1	0	New Value 1	N	lone	Chang	ed Value 1?	Y
Old Value 2		New Value 2				ed Value 2?	Ļ
Old Operator 1	> New Opt. 1 >	Changed Opt. 1? N		New Opt. 2		anged Opt. 2?	<u></u>
Old Condensed Impact		Impact		Freezing Rain	Change Conden	sed Impact?	N
Old Full Impact	Any occurrence of freezing	ıg rain degrades mobili	ty and speed.				
New Full Impac	Any occurrence of freezir	ng rain degrades mobili	ty and speed and	d increases drivi	ng time.		
Old Source	(1st Cavalry Division, 199	2).			Chang	ed Full Impact	Y
New Source	TM 9-2320-280-10, Para 2-	22, Oct 1986					
Comments							
Change to Sour	rce? Y	Are There Any (	2) Options? N		Any Chang	e to Record?	Y

ID# 137 Sub	osystem Name	WHEELED PL	ATFORM	Rule 1 #	59 Rule 2 #	Delete Rule?	N
Old Color	2 New Color	1				Changed Color?	Y
Parameter 1 #	17 Old Param. 1 ID	snow	New Par	am. 1 ID S	now	Changed Param. 1?	N
Parameter 2 #	Old Param. 2 ID		New Par	am. 2 ID		Changed Param. 2?	
Old Value 1	1	New V	alue 1	Light		Changed Value 1?	Y
Old Value 2		New V	alue 2			Changed Value 2?	
Old Operator 1	> New Opt. 1	> Changed O	ot. 1? N Old O	pt. 2 New 0	Opt. 2	Changed Opt. 2?	
Old Condensed Impact	Snov		ew Condensed pact	Snow		Changed Condensed Impact?	N
Old Full Impact	Snow > light intensi	y makes mobility of	the system very	difficult.		, , , , , , , , , , , , , , , , , , , ,	
New Full Impact	Snow > light intensi	y makes mobility of	the system diffic	cult and increases	driving time.		
						Changed Full Impact	Y
Old Source	(1st Cavalry Division	, 1992);					
New Source	TM 9-2320-280-10, P	ara 2-22, Oct 1986					
Comments							
Change to Sour	ce? Y	Are The	ere Any (2) Option	s? N	Any	Change to Record?	Y

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## **IWEDA Component Rules** ID# 1 Component Name 30 MM MACHINE GUN Rule 1# 46 Rule 2# Delete Rule? Old Color New Color Changed Color? 26 visibility Parameter 1 # Old Param. 1 ID New Param. 1 ID Changed Param. 1 Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2<sup>e</sup> Old Value 1 4000 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2 Old Condensed Reduced Visibility **New Condensed** Changed Impact Impact Condensed Impact? Old Full Impact Visibility < 2.5 miles (4000 m) reduces the operating capability. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ Delete Rule: Redundant with Subsystem Rule #ID 12 Reason for Delete Comments Changed Source? Are There Any (2) Options? N Υ Any Change to Record? ID# AN/MPQ-53 (PATRIOT RADAR ANT) Rule 2# Component Name Rule 1# 55 Delete Rule? Old Color 1 New Color Changed Color? Parameter 1 # 10 Old Param. 1 ID freezingrain New Param. 1 ID Changed Param. 1? Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2? Old Value 1 New Value 1 Changed Value 1? Old Value 2 New Value 2 Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2 Old Condensed Freezing Rain **New Condensed** Changed Condensed Impact? Impact Impact Old Full Impact Moderate freezing rain causes ice buildup on the antenna that may degrade the effectiveness of the system. New Full Impact Changed Full Impact? Old Source (1st Cavalry Division, 1992); New Source/ Delete Rule: TM9-1430-601-10-1, Operator's Manual makes no mention of any impact from freezing rain, May Reason for Delete Comments Changed Source? Y N Υ

Are There Any (2) Options?

ID# 3 C	omponent Name	AN/MPQ-	53 (PATRIOT R	ADAR ANT	) R	ule 1 #	57 F	Rule 2#	D .	elete Rule?	Y
Old Color 2	New Color								Changed	Color?	
Parameter 1 #	10 Old Param. 1 II	D free	zingrain	New Param	. 1 ID				Change	ed Param. 1	?
Parameter 2 #	Old Param. 2 II	D		New Param	. 2 ID				Change	ed Param. 2	??
Old Value 1	2		New Value	1					Change	ed Value 1?	
Old Value 2			New Value	2					Change	ed Value 2?	
Old Operator 1	> New Opt. 1		Changed Opt. 1	? Old C	Opt. 2	Ne	w Opt. 2	:	Char	nged Opt. 2	
Old Condensed Impact	Freezin	g Rain	New Co Impact	ndensed					Changed Condens	ed Impact?	
Old Full Impact	Heavy freezing rain system.	n causes ice	buildup on the	e antenna tl	hat signi	ficantly o	legrades	the eff	fectivenes	s of the	
New Full Impact											
									Changed F	full Impact?	$\overline{\Box}$
Old Source (1s	t Cavalry Division, 1	1992);							g	p	LJ
	Delete Rule: TM9-14 1997	430-601-10-	1, Operator's M	anual make	es no m	entionof	any imp	act fron	n freezing	rain, May	
Comments											
Changed Source	? <b>Y</b>		Are There Ar	ny (2) Option	ns? N			Any	Change to	Record?	Y
- · <b>J</b>				• • • •	ــــــا	J		•	_		
	omponent Name	AN/MPQ-	53 (PATRIOT R	ADAR ANT	) R	ule 1 # [	58 F	Rule 2 #		elete Rule?	Y
Old Color 2	New Color					ule 1 #	58 F	Rule 2 #	Changed	Color?	
Old Color 2 Parameter 1 #	New Color  17 Old Param. 1 II	D .	snow	New Param.	. 1 ID	ule 1 # [	58 F	Rule 2 #	Changed (	Color? ed Param. 1	
Old Color 2 Parameter 1 # Parameter 2 #	New Color  17 Old Param. 1 II  Old Param. 2 II	D .	snow	New Param. New Param.	. 1 ID	ule 1 # [	58 F	Rule 2 #	Changed Change	Color? ed Param. 1 ed Param. 2	? ? []
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color  17 Old Param. 1 II	D .	snow New Value	New Param.	. 1 ID	ule 1 #	58 F	Rule 2#	Changed Change	Color? ed Param. 1 ed Param. 2 ed Value 1?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color  17 Old Param. 1 II  Old Param. 2 II  3		New Value	New Param. New Param.	. 1 ID . 2 ID				Changed Change Change Change	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  Old Param. 1 II  Old Param. 2 II  3  New Opt. 1		New Value New Value Changed Opt. 1	New Param. New Param. 1 2 Old C	. 1 ID . 2 ID		58 F		Changed Change Change Change Change Change	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? ed Value 2?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  17 Old Param. 1 II  Old Param. 2 II  3		New Value New Value Changed Opt. 1	New Param. New Param.	. 1 ID . 2 ID				Changed Change Change Change Change Change Change	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? ed Value 2?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  Old Param. 1 II  Old Param. 2 II  3  New Opt. 1		New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2		Changed Change Change Change Change Change Change Changed Condense	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? eged Opt. 2	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno		New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2		Changed Change Change Change Change Change Change Changed Condense	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? eged Opt. 2	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno		New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2		Changed Change Change Change Change Change Change Changed Condense	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? eged Opt. 2	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno		New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2		Changed Change Change Change Change Change Change Changed Condense	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? eged Opt. 2	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno		New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2	the sys	Changed Change Change Change Change Change Change Changed Condense Stem.	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? eged Opt. 2	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno	D s	New Value New Value 2 Changed Opt. 1 New Co	New Param.  New Param.  1  2  7 Old Condensed	. 1 ID	Ne	w Opt. 2	the sys	Changed Change Change Change Change Change Change Changed Condense Stem.	Color? ed Param. 1 ed Param. 2 ed Value 1? ed Value 2? ed Opt. 2 ed Impact?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno  Heavy snow attenu	Downates the sig	New Value 2 New Value 2 Changed Opt. 1 New Co Impact Impact Impact	New Param.  New Param.  Old Condensed	2 ID Opt. 2	Ne	ew Opt. 2	the sys	Changed Change Change Change Change Changed Changed Condense Stem.	Color?  ed Param. 1  ed Param. 2  ed Value 1?  ed Value 2?  eged Opt. 2  ed Impact?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno  Heavy snow attenue  t Cavalry Division, 1	Downates the sig	New Value 2 New Value 2 Changed Opt. 1 New Co Impact Impact Impact	New Param.  New Param.  Old Condensed	2 ID Opt. 2	Ne effective	ew Opt. 2	the sys	Changed Change Change Change Change Changed Changed Condense Stem.	Color?  ed Param. 1  ed Param. 2  ed Value 1?  ed Value 2?  eged Opt. 2  ed Impact?	
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for Delete	New Color  17 Old Param. 1 II  Old Param. 2 II  3  = New Opt. 1  Sno  Heavy snow attenue  t Cavalry Division, 1	Downates the sig	New Value 2 New Value 2 Changed Opt. 1 New Co Impact Impact Imal and signifi	New Param.  New Param.  Old Condensed	2 ID Opt. 2	Ne effective	ew Opt. 2	the sys	Changed Change Change Change Change Changed Changed Condense Stem.	Color? ad Param. 1 ad Param. 2 ad Value 1? ad Value 2? aged Opt. 2 ad Impact? full Impact?	

ID# 5 C	omponent Name	AN/MPQ-53 (PATR	IOT RADAR	ANT)	Rule 1 # [	<b>59</b> Ru	ıle 2 #	Delete Rule	? <b>Y</b>
Old Color 1	New Color							Changed Color?	
Parameter 1 #	17 Old Param. 1 ID	snow	New Pa	aram. 1 ID				Changed Param.	13
Parameter 2 #	Old Param. 2 ID		New Pa	aram. 2 ID				Changed Param. 2	27
Old Value 1	1	New '	Value 1					Changed Value 1?	· 🗌
Old Value 2		New '	Value 2					Changed Value 27	· 🔲
Old Operator 1	> New Opt. 1	Changed	Opt. 1?	Old Opt. 2	N-	ew Opt. 2		Changed Opt. 2	
Old Condensed Impact	Snow		lew Condense npact	ed				Changed Condensed Impact?	
Old Full Impact	Moderate snow atter	nuates the signal a	nd degrades	the effecti	veness of t	he systen	1.		
New Full Impact									
								Changed Full Impact?	<b>'</b>
<u> </u>	t Cavalry Division, 19								
New Source/ Reason for Delete	Delete Rule: TM9-143	30-601-10-1, Operat	or's Manual	makes no	mentionof	any impa	ct from	snow, May 1997	
Comments									
	<u> </u>								
Changed Source	? Y	Are Ir	nere Any (2) C	options?	N		Any	Change to Record?	Y
				·					
ID# 6 C	omponent Name	COPPE	RHEAD		Rule 1 # [	37 Rt	ule 2 #	Delete Rule	? N
ID # 6 C	omponent Name	COPPE 2	RHEAD		Rule 1 # [	37 Rt		Delete Rule?	P N
Old Color 2				aram. 1 ID[	J L	37 Ro			N
Old Color 2	New Color	2	New P	aram. 1 ID[ aram. 2 ID[	J L			Changed Color?	N 1? N
Old Color 2 Parameter 1 #	New Color  26 Old Param. 1 ID	2 visibility	New P	aram. 2 ID	J L	isibility		Changed Color?  Changed Param.	N 17 N 27
Old Color 2 Parameter 1 # Parameter 2 #	New Color 26 Old Param. 1 ID Old Param. 2 ID	visibility New	New P	aram. 2 ID	V	isibility		Changed Color? Changed Param. 2	N 1? N 2? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color 26 Old Param. 1 ID Old Param. 2 ID	visibility New	New Pour New New Pour New	aram. 2 ID	V 000 meters	isibility		Changed Color? Changed Param. 2 Changed Param. 2 Changed Value 13	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 26 Old Param. 1 ID Old Param. 2 ID 1000	visibility  New  New  Changed  sibility	New Pour New New Pour New	aram. 2 ID	V 000 meters	ew Opt. 2		Changed Color? Changed Param. 2 Changed Param. 2 Changed Value 12 Changed Value 22	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1	visibility  New New Changed	New Paragraphy New Paragraphy New Paragraphy New Paragraphy New Condense Report New Condense Report New Paragraphy New Paragra	aram. 2 ID 11 Old Opt. 2	000 meters  N Very Low	ew Opt. 2		Changed Color? Changed Param. 2 Changed Value 12 Changed Value 22 Changed Opt. 2 Changed Condensed Impact?	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (	visibility  New  New  Changed  sibility  Note: The street of the street	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement	Old Opt. 2	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 13 Changed Value 23 Changed Opt. 2 Changed Changed Changed Changed Changed	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 Reduced Vi	visibility  New  New  Changed  sibility  Note: The street of the street	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement	Old Opt. 2	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 13 Changed Value 23 Changed Opt. 2 Changed Changed Changed Changed Changed	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (	visibility  New  New  Changed  sibility  Note: The street of the street	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement	Old Opt. 2	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 13 Changed Value 23 Changed Opt. 2 Changed Changed Changed Changed Changed	N 17 N 27 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (	visibility  New  New  Changed sibility  1000 m) reduces the	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement	Old Opt. 2	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 13 Changed Value 23 Changed Opt. 2 Changed Changed Changed Changed Changed	N   17   N   27
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (	visibility  New  New  Changed sibility  1000 m) reduces the	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement	Old Opt. 2	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 12 Changed Value 22 Changed Opt. 2 Changed Condensed Impact?	N   17   N   27
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (	visibility  New  Changed sibility  1000 m) reduces the significant of	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement The engagement The engagement The engagement	Old Opt. 2 ed int effective	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 12 Changed Value 22 Changed Opt. 2 Changed Condensed Impact?	N   17   N   27
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1  Reduced Vi  Visibility < 0.6 mile (  Visibility < 0.6 mile (	visibility  New  Changed sibility  1000 m) reduces the significant of	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement The engagement The engagement The engagement	Old Opt. 2 ed int effective	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 12 Changed Value 22 Changed Opt. 2 Changed Condensed Impact?	N   17   N   27
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for Delete	New Color  26 Old Param. 1 ID Old Param. 2 ID 1000  < New Opt. 1  Reduced Vi  Visibility < 0.6 mile (  Visibility < 0.6 mile (  t Cavalry Division, 19  Rule validated by US.	visibility  New  Changed sibility  1000 m) reduces the 1000 m) reduces the 192);  AFAS, POC Maj Changed	New Paragrams New Paragrams Value 1  Value 2  Opt. 1? N  New Condense The engagement The engagement The engagement The engagement	Old Opt. 2 ed int effective int effective	000 meters  N  Very Low eness of th	ew Opt. 2 Visibility	sensor	Changed Color? Changed Param. 2 Changed Value 12 Changed Value 22 Changed Opt. 2 Changed Condensed Impact?	N   17   N   27

ID# 7	Component Name	COPPERHEAD	Rule 1 # 46 Rule 2	# Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Param. 1	D Visibility	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID	New Param. 2	ID	Changed Param. 2?
Old Value 1	4000	New Value 1	4000 meters	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	New Opt. 1	Changed Opt. 1? N Old Opt.	2 New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Condensed Impact	Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility < 2.5 miles (4000 n	n) reduces the engagement effe	ctiveness of the IR-SAL sens	sor.
New Full Impact	Visibility < 2.5 miles (4000 n	n) reduces the engagement effe	ctiveness of the IR-SAL sens	sor.
				Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);			
New Source/ Reason for Delete	Rule validated by USAFAS, F	POC Maj Chapman, 3 Dec 1997		
Comments				
Changed Source	9? Y	Are There Any (2) Options?	N An	y Change to Record?
ID# 8 C	omponent Name	COPPERHEAD	Rule 1 # 52 Rule 2 :	# Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	14 Old Param. 1 ID	rain New Param. 1	D Rain	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID	New Param. 2	D .	Changed Param. 2?
Old Value 1	1	New Value 1	Light	Changed Value 1? Y
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1? N Old Opt.	2 New Opt. 2	Changed Opt. 2
Old Condensed Impact	Precipitation	New Condensed Impact	Rain	Changed Condensed Impact?
Old Full Impact	Rain > light intensity makes	lasing the target difficult.		
New Full Impact	Rain > light intensity makes	lasing the target difficult.		
•				Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);			]
New Source/ Reason for Delete	Rule validated by USAFAS, F	POC Maj Chapman, 3 Dec 1997		
Comments				
Changed Source	? <b>Y</b>	Are There Any (2) Options?	N An	y Change to Record? Y

ID# 9 (	Component :	Name		COPPERHE	AD			Rule 1#	54	Rule 2	#	Delete F	Rule? N
Old Color 2	Ne	w Color	2					,	<u> </u>		Ch	anged Color?	. N
Parameter 1 #	14 Old F	Param. 1 ID		 rain	Ne	w Paran	n. 1 ID		Rain			Changed Para	am. 17 N
Parameter 2 #	Old F	Param. 2 ID			์ ี Ne	w Paran	n. 2 ID				一	Changed Para	am. 2?
Old Value 1		2		New Value	_ e 1			Moderate				Changed Valu	ıe 1? 🟋
Old Value 2				New Value	e 2							Changed Valu	Je 2?
Old Operator 1	> N	ew Opt. 1	>	Changed Opt.	1? [	N Old	Opt. 2		lew Opt.	2		Changed O	pt. 2
Old Condensed Impact		Precipitat	ion	New 0		iensed		Heav	y Rain			 hanged ondensed Imp	pact? Y
Old Full Impact	Rain > mo	oderate inter	nsity ma	kes lasing the	targ	get very	difficu	t.					
New Full Impact	Rain > mo	oderate inter	nsity ma	akes lasing the	targ	jet very	difficu	lt.					
014 0	-4.0	3h dalaa 400	.01-					·			Cha	anged Full Imp	pact? N
<u>.                                    </u>		Division, 199		00.14-1.01		0.04							
New Source/ Reason for Delete	Rule valid	ated by USA	.FAS, P	OC Maj Chapm	ian,	3 Dec 19	997						
Comments													
Changed Source	e? <b>Y</b>			Are There	Any	(2) Optic	ns?	N		Α	ny Ch	nange to Reco	ord? Y
							_						
	Component	Name		COPPERHE	AD			Rule 1#	58	Rule 2		Delete F	<u> </u>
Old Color 2		w Color	2		_		_					anged Color?	
Parameter 1 #		Param. 1 ID		snow	=	w Paran	_		Snow			Changed Para	
Parameter 2 #	Old F	Param. 2 ID		1	_	w Paran						Changed Para	
Old Value 1		3		New Value				Moderate				Changed Valu	
Old Value 2				New Value	r							Changed Valu	
Old Operator 1	L	lew Opt. 1	=	Changed Opt.			Opt. 2	L	New Opt.	2		Changed C	pt. 2
Old Condensed Impact		Snow		New 0		lensed		Heavy	y Snow			hanged ondensed Imp	pact? Y
Old Full Impact	Snow > n	noderate inte	ensity n	nakes lasing th	e tai	rget ver	/ diffic	uit.					
Now Eull Impor	• Enous > n			ackee leeing th			, diffic				-		
New Full Impac	Snow > n	loderate inte	ensity n	takes lasing th	ie tai	rget ver	, ame	uit.					
Old Source (1	ot Covolny	Division 100	21.						•		_Cha	anged Full Imp	pact? N
New Source/		Division, 199		OC Maj Chapm		3 Dec 44	207		· · · · · · · · · · · · · · · · · · ·				
Reason for Delete	Rule Valid	ated by USA	KFAS, P	oc waj chapir	ıan,	3 Dec 1:	391						
Comments													
Changed Source	e? Y			Are There	Any	(2) Optio	ons?	N		Δ	ny Cl	hange to Reco	ord? Y
	ــــا			5		,-, -par	[			•	.,		

ID# 11 C	omponent Name	COPPERHEAD		Rule 1 # 59 R	ule 2 # Delete Rule? N
Old Color 1	New Color 1				Changed Color? N
Parameter 1 #	17 Old Param. 1 ID	snow Ne	w Param. 1 ID	Snow	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	Ne	w Param. 2 ID		Changed Param. 2?
Old Value 1	1	New Value 1		Light	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Snow	New Conc Impact	lensed	Snow	Changed Condensed Impact?
Old Full Impact	Snow > light intensity makes	s lasing the target o	lifficult.		
New Full Impact	Snow > light intensity makes	s lasing the target o	lifficult.		
					Changed Full Impact? N
Old Source (1st	t Cavalry Division, 1992);				
New Source/ Reason for Delete	Rule validated by USAFAS, P	OC Maj Chapman,	3 Dec 1997		
Comments					
Changed Source	? Y	Are There Any	(2) Options?	N	Any Change to Record? Y
			٠.		
ID# 12 C	4.84	CORREDUCAR		Dula 4 # 00 D	Ja 2 # Delata Bula N
01101	omponent Name	COPPERHEAD		Rule 1 # 96 R	ule 2 # 96 Delete Rule? N
Old Color 2	New Color 2				Changed Color?
Parameter 1 #	New Color 2  4 Old Param. 1 ID cl	loudcover Ne	w Param. 1 ID	Cloud Cover	Changed Color? N  Changed Param. 1? N
Parameter 1 # Parameter 2 #	New Color         2           4         Old Param. 1 ID         cl           3         Old Param. 2 ID         c	loudcover Ne	w Param. 2 ID	Cloud Cover	Changed Color?  Changed Param. 1? N  Changed Param. 2? N
Parameter 1 # Parameter 2 # Old Value 1	New Color 2  4 Old Param. 1 ID Cl  3 Old Param. 2 ID C	loudcover Ne loudbase Ne New Value 1	w Param. 2 ID	Cloud Cover Cloud Base 3 Coverage	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 2  4 Old Param. 1 ID cl  3 Old Param. 2 ID c  0  1500	loudcover Ne cloudbase Ne New Value 1 New Value 2	w Param. 2 ID	Cloud Cover Cloud Base 3 Coverage 1500 ft.	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color 2  4 Old Param. 1 ID Cl  3 Old Param. 2 ID C  0  1500  > New Opt. 1 >=	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1?	w Param. 2 ID  4/i  Y Old Opt. 2	Cloud Cover Cloud Base B Coverage 1500 ft.	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 2  4 Old Param. 1 ID cl  3 Old Param. 2 ID c  0  1500	loudcover Ne cloudbase Ne New Value 1 New Value 2	w Param. 2 ID  4/i  Y Old Opt. 2	Cloud Cover Cloud Base 3 Coverage 1500 ft.	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 2  4 Old Param. 1 ID Cl  3 Old Param. 2 ID C  0  1500  > New Opt. 1 >=	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact	Y Old Opt. 2	Cloud Cover Cloud Base Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2  4 Old Param. 1 ID cl 3 Old Param. 2 ID c  0	loudcover Ne Roudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact e acquiring the lase	Y Old Opt. 2 densed d target very di	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2  4 Old Param. 1 ID cl  3 Old Param. 2 ID c  0  1500  > New Opt. 1 >=  Clouds	loudcover Ne Roudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact e acquiring the lase	Y Old Opt. 2 densed d target very di	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2  4 Old Param. 1 ID cl 3 Old Param. 2 ID c  0	loudcover Ne Roudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact e acquiring the lase	Y Old Opt. 2 densed d target very di	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed Condensed Impact? Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 2  4 Old Param. 1 ID cl  3 Old Param. 2 ID c  0 1500  > New Opt. 1 >=  Clouds  Cloud bases <= 1500 ft make	loudcover Ne Roudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact e acquiring the lase	Y Old Opt. 2 densed d target very di	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	New Color 2  4 Old Param. 1 ID cl 3 Old Param. 2 ID c  0 1500  > New Opt. 1 >= Clouds  Cloud bases <= 1500 ft make  Cloud ceilings <= 1500 ft make  t Cavalry Division, 1992);	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact a acquiring the lase	Y Old Opt. 2 lensed d target very dised target very	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed Condensed Impact? Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	New Color 2  4 Old Param. 1 ID cl  3 Old Param. 2 ID c  0 1500  > New Opt. 1 >=  Clouds  Cloud bases <= 1500 ft make	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact a acquiring the lase	Y Old Opt. 2 lensed d target very dised target very	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed Condensed Impact? Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st New Source/ Reason for	New Color 2  4 Old Param. 1 ID cl 3 Old Param. 2 ID c  0 1500  > New Opt. 1 >= Clouds  Cloud bases <= 1500 ft make  Cloud ceilings <= 1500 ft make  t Cavalry Division, 1992);	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact a acquiring the lase	Y Old Opt. 2 lensed d target very dised target very	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed Condensed Impact? Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact  New Full Impact  Old Source (1st New Source/ Reason for Delete	New Color 2  4 Old Param. 1 ID cl 3 Old Param. 2 ID c  0 1500  > New Opt. 1 >=  Clouds  Cloud bases <= 1500 ft make  Cloud ceilings <= 1500 ft make  t Cavalry Division, 1992);  Rule validated by USAFAS, P	loudcover Ne loudbase Ne New Value 1 New Value 2 Changed Opt. 1? [ New Cond Impact a acquiring the lase	Y Old Opt. 2 lensed d target very dised target very 3 Dec 1997	Cloud Cover Cloud Base  B Coverage 1500 ft.  New Opt. 2 Low Clouds	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? Y  Changed Value 2? N  <= Changed Opt. 2 N  Changed Condensed Impact? Y

ID# 13 Co	mponent Name	COPPERI	IEAD	Rule 1 #	97 Rule 2	# 97 Delete Rule? N
Old Color 1	New Color	1				Changed Color? N
Parameter 1 #	Old Param. 1 ID	cloudcover	New Param. 1 I	D Clou	ıd Cover	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID	cloudbase	New Param. 2 i	Clos	ud Base	Changed Param. 27 N
Old Value 1	0	New Va	lue 1	4/8 Coverage		Changed Value 1? Y
Old Value 2	2500	New Va	lue 2	2500 ft.		Changed Value 2? N
Old Operator 1	> New Opt. 1	>= Changed Op	ot. 1? Y Old Opt.	2 <= Ne	w Opt. 2	<= Changed Opt. 2 N
Old Condensed Impact	Clouds	Nev Imp	v Condensed act	Low Clo	ouds	Changed Condensed Impact?
Old Full Impact	Cloud bases <= 2500	ft make acquiring th	e lased target diffi	cult.		
New Full Impact	Cloud ceilings <= 250	0 ft make acquiring	the lased target di	fficult.		
0110	0 1 0 1 100					Changed Full Impact? Y
<u>-</u>	Cavalry Division, 199					
New Source/ Reason for Delete	tule validated by USA	FAS, POC Maj Chap	man, 3 Dec 1997			
Comments						
Changed Source?	Y	Are Ther	e Any (2) Options?	Y	Ar	ny Change to Record?
ID# 14 Co	mponent Name	COPPERH	IEAD	Rule 1#	107 Rule 2	# 107 Delete Rule? Y
Old Color 1	New Color					Changed Color?
Parameter 1 #	4 Old Param. 1 ID	cloudcover	New Param. 1 I	D		Changed Param. 1?
Parameter 2 #	3 Old Param. 2 ID	cloudbase	New Param. 2 I	D		Changed Param. 2?
Old Value 1	4	New Va	lue 1			Changed Value 1?
Old Value 2	5000	New Va	lue 2			Changed Value 2?
Old Operator 1	> New Opt. 1	Changed Op	ot. 1? Old Opt.	2 <= Ne	w Opt. 2	Changed Opt. 2
Old Condensed Impact	Clouds	Nev Imp	v Condensed act			Changed Condensed Impact?
Old Full Impact	Cloud cover > 4/8 with	h cloud bases <= 50	00 ft degrades the	overall use of	smart munitio	ons.
New Full Impact						
L						Changed Full Impact?
Old Source (1st	Cavalry Division, 199	2);				
New Source/ Reason for Delete	Pelete Rule: Redunde	nt with rules ID# 12	and 13.			
Comments						
Changed Source?	Y	Are Ther	re Any (2) Options?	Y	Ar	ny Change to Record?

			* * .**.							
ID# 15 C	omponent Name		DIESEL FUE	L		Rule 1#	7 R	ule 2 #	Delete	Rule? N
Old Color 1	New Color	1							Changed Color	r? N
Parameter 1 #	22 Old Param. 1 ID	ter	nperature	New Para	m. 1 ID	Te	mperature	,	Changed Pa	ıram. 1? N
Parameter 2 #	Old Param. 2 ID			New Para	m. 2 ID				Changed Pa	ıram. 2?
Old Value 1	-25		New Value	1		- 25 F			Changed Va	lue 1? N
Old Value 2			New Value	2					Changed Va	ilue 2?
Old Operator 1	<= New Opt. 1	<=	Changed Opt. 1	? N Old	Opt. 2		New Opt. 2		Changed	Opt. 2
Old Condensed Impact	Cold		New Co Impact	ondensed		Extren	ne Cold		Changed Condensed In	npact? Y
Old Full Impact	Temperatures < -25	F cause o	liesel fuel to ge	ll uniess h	eaters a	re used.				
New Full Impact	Temperatures <= -25	F require	extreme cold t	emperatu	e grade	fuels				
Old Source (4a)	Covelm Division 40	02).	<del></del>						Changed Full In	npact? Y
<u> </u>	t Cavalry Division, 19		h 1092							
New Source/ Reason for Delete	TM 5-6115-600-12, Pa	ra 3-1, re	9D 1962							
Comments										
Changed Source	? <b>Y</b>		Are There A	ny (2) Opti	ons?	N		Any	Change to Rec	cord? Y
ID# 16 C	omponent Name	FIR	E CONTROL S	STEM		Rule 1#	51 R	ule 2#	Delete	Rule? N
Old Color 1	New Color	1	1						Changed Color	. —
Parameter 1 #	7 Old Param. 1 ID		drizzle	New Parar	n. 1 ID		Drizzle	•	Changed Pa	ram. 1? N
Parameter 2 #	Old Param. 2 ID			New Parar	n. 2 ID				Changed Pa	ram. 2?
Old Value 1	0	<u> </u>	New Value	1		None			Changed Va	lue 1? Y
Old Value 2			New Value	2					Changed Va	lue 2?
Old Operator 1	> New Opt. 1	>	Changed Opt. 1	? N Old	Opt. 2	N	lew Opt. 2		Changed	Opt. 2
Old Condensed Impact	Drizzl	е	New Co	ondensed		Dri	zzle		Changed Condensed Im	npact? N
Old Full Impact	Any occurrence of d	rizzle (we	et weather) caus	ses fire co	ntrol sys	stem failu	res if the e	electror	ic box is not s	sealed.
New Full Impact	Any occurrence of d	rizzie (we	et weather) caus	ses fire co	ntrol sy	stem failu	res if the e	electror	ic box is not s	sealed.
									Changed Full In	npact? N
L	Cavalry Division, 19									
New Source/ Reason for Delete	Rule validated by US	AFAS, PC	OC SFC Garrett,	3 Dec 199	7.					
Comments										
Changed Source	? [Y]		Are There A	ny (2) Opti	ons?	N		Any	Change to Rec	cord? Y

ID# 17 C	omponent Name F	IRE CONTROL SYSTEM	Rule 1 # 53 R	ule 2 # Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	14 Old Param. 1 ID	rain New Parar	n. 1 ID Rain	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Parar	n. 2 ID	Changed Param. 2?
Old Value 1	0	New Value 1	None	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	> New Opt. 1 >	Changed Opt. 1? N Old	Opt. 2 New Opt. 2	Changed Opt. 2
Old Condensed Impact	Precipitation	New Condensed Impact	Rain	Changed Condensed Impact?
Old Full Impact	Any occurrence of rain (we	: weather) causes fire contro	ol system failures if the elec	ctronic box is not sealed.
New Full Impact	Any occurrence of rain (we	weather) causes fire contro	ol system failures if the elec	ctronic box is not sealed.
1404 Tuli III puot	Any obtaining or fam (we	. nounter, outlier in contra		
				Channel Full Impact N
Old Source (1s	Cavalry Division, 1992);			Changed Full Impact? N
التساء	Rule validated by USAFAS,	POC SFC Garrett, 3 Dec 199	7.	
Reason for	italo vallados sy oci il itali			
Delete				
Comments				
Changed Source	? Y	Are There Any (2) Option	ons? N	Any Change to Record? Y
Changed Source	f	Are There Arry (2) Option	ms: R	Any change to record:
			·	
ID# 18 C	omponent Name	LASER R/D	Rule 1 # 36 R	Rule 2 # Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Parar	n. 1 ID Visibility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Para	m. 2 ID	Changed Param. 2?
Old Value 1	5000	New Value 1	5000 meters	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1? N Old	Opt. 2 New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Condensed Impact	Reduced Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of visibility	< 3.1 miles (5000 m) reduc	es the range and reflective	ness and makes lasing the
	target difficult.			
New Full Impact	Any occurrence of visibility target difficult.	/ < 3.1 miles (5000 m) reduc	es the range and reflective	ness and makes lasing the
				Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);			
New Source/ Reason for Delete	"Quantitative vs. Qualitative WSMR, NM. Final verification		There a Difference?" Dr. R.	Shirkey, Dec 1997, ARL,
Comments	Research not completed. F	inal results will be used to	rerify rule.	
Changed Source	9? Y	Are There Any (2) Opti	ons? N	Any Change to Record?

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ID# 19 C	omponent Name	LASER R/D		Rule 1 # 45	Rule 2 # Delete Rule? N
Old Color 2	New Color 2				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility N	lew Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	N	lew Param. 2 ID		Changed Param. 2?
Old Value 1	3100	New Value 1	3	100 meters	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt.	2 Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Con Impact	densed	Low Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of visibility the target very difficult.	< 1.9 miles (3100 r	n) greatly reduc	es the range and e	ffectiveness and makes lasing
New Full Impact	Any occurrence of visibility < the target very difficult.	< 1.9 miles (3100 r	n) greatly reduc	es the range and e	ffectiveness and makes lasing
Old Source (1s	t Cavalry Division, 1992);	······································			Changed Full Impact? N
	"Quantitative vs. Qualitative T WSMR, NM. Final verification		Aids: Is There a	Difference?" Dr. R.	Shirkey, Dec 1997, ARL,
Comments	Research not completed. Fin	al results will be u	sed to verify ru	le.	
Changed Source	? Y	Are There Any	(2) Options?	N	Any Change to Record?
· [					- · · · · · · · · · · · · · · · · · · ·
	omponent Name	LASER R/D		Rule 1 # 110	Rule 2 # 110 Delete Rule? N
Old Color 1	New Color 1	· 12-11/4.		Visibilit.	Changed Color? N
<u></u>			ew Param. 1 ID	Visibility	Changed Param. 17 N
	14 Old Param. 2 ID		ew Param. 2 ID	Rain	Changed Param. 2? N
Old Value 1	, 5000	New Value 1	51	000 meters	Changed Value 1? N
Old Value 2	0	New Value 2		None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?		> New Opt. 2	
Old Condensed Impact	Precipitation and Reduced V	isibility New Con Impact	densed Rain	n and Reduced Vis	ibility Changed Condensed Impact?
Old Full Impact	Any occurrence of rainfall an lasing the target difficult.	d visibility < 3.1 n	niles (5000 m) re	educes the range a	nd effectiveness and makes
New Full Impact	Any occurrence of rainfall an lasing the target difficult.	d visibility < 3.1 n	niles (5000 m) re	educes the range a	nd effectiveness and makes
Old Source (1st	Cavalry Division, 1992);				Changed Full Impact? N
	'Quantitative vs. Qualitative T WSMR, NM. Final verification		Aids: Is There a	Difference?" Dr. R.	Shirkey, Dec 1997, ARL,
Comments	Research not completed. Find	al results will be u	sed to verify ru	le.	
	? Y		(2) Options?	Y	Any Change to Record? V

ID# 21 C	component Name	LASE	R R/D	Rule 1 #	# 111 Rule 2	# 111 Delete Rule? N
Old Color 1	New Color	1				Changed Color? N
Parameter 1 #	26 Old Param. 1 II	D visibility	New Parar	n. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	12 Old Param. 2 II	D snow	New Paran	n. 2 ID	Snow	Changed Param. 2? N
Old Value 1	5000	New	Value 1	5000 mete	ers	Changed Value 1? N
Old Value 2	0	New	Value 2	None		Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed	Opt. 1? N Old	Opt. 2 >	New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Snow and Red	7 1	New Condensed mpact	Snow and R	educed Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of lasing the target di		ity < 3.1 miles (5	000 m) reduces	the range and eff	fectiveness and makes
New Full Impact	Any occurrence of lasing the target di		ity < 3.1 miles (5	000 m) reduces	the range and ef	fectiveness and makes
						Changed Full Impact? N
(	t Cavalry Division, 1					
New Source/ Reason for Delete		ualitative Tactical De erification not comp		here a Differen	ce?" Dr. R. Shirke	ey, Dec 1997, ARL,
Comments	Research not comp	leted. Final results	will be used to v	erify rule.		
Changed Source		Are T	here Any (2) Option	ons? Y	Ar	ny Change to Record? V
· ·						
ID# 22 C	Component Name	LASE	R R/D	Rule 1:	# 113 Rule 2:	# 113 Delete Rule? N
	Component Name  New Color	LASE	ER R/D	Rule 1	# 113 Rule 2	# 113 Delete Rule? N Changed Color? N
	New Color	1	R R/D New Parar		# 113 Rule 2:	
Old Color 1 Parameter 1 #	New Color	1 D visibility		m. 1 ID		Changed Color?
Old Color 1	New Color 26 Old Param. 1 I	1 visibility D fog	New Parar	m. 1 ID	Visibility Fog	Changed Color? N Changed Param. 1? N
Old Color 1 Parameter 1 # Parameter 2 #	New Color [ 26 Old Param. 1 I 9 Old Param. 2 I	1 D visibility D fog New	New Parar	m. 1 ID m. 2 ID	Visibility Fog	Changed Color? N  Changed Param. 1? N  Changed Param. 2? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000	1  D visibility D fog  New New	New Parar New Parar Value 1	m. 1 ID m. 2 ID 5000 mete None	Visibility Fog ers	Changed Color? N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color [ 26 Old Param. 1 I 9 Old Param. 2 I 5000	1  D visibility D fog  New New  Changed	New Parar New Parar Value 1  Value 2	m. 1 ID m. 2 ID 5000 mete None Opt. 2 =	Visibility Fog	Changed Color? N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu	1 D visibility D fog New New Changed uced Visibility I fog and visibility <	New Parar New Parar Value 1 Value 2 Opt. 1? N Old New Condensed	m. 1 ID m. 2 ID  5000 mete  None  Opt. 2 =  Fog and Re	Visibility Fog ers New Opt. 2	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu  Any occurrence of target acquisition	1 D visibility D fog New New Changed uced Visibility I fog and visibility < difficult.	New Parar  New Parar  Value 1  Value 2  Opt. 1? N Old  New Condensed  Impact  3.1 miles (5000 n	m. 1 ID  m. 2 ID  5000 mete  None  Opt. 2 =  Fog and Re  n) reduces the te	Visibility Fog ers New Opt. 2 educed Visibility earget and backgr	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu  Any occurrence of target acquisition  Any occurrence of	1 D visibility D fog New New Changed uced Visibility I fog and visibility < difficult.	New Parar  New Parar  Value 1  Value 2  Opt. 1? N Old  New Condensed  Impact  3.1 miles (5000 n	m. 1 ID  m. 2 ID  5000 mete  None  Opt. 2 =  Fog and Re  n) reduces the te	Visibility Fog ers New Opt. 2 educed Visibility earget and backgr	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Condensed Impact?  N  Cound contrast making
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu  Any occurrence of target acquisition  Any occurrence of	D visibility D fog New New Changed uced Visibility I fog and visibility < difficult. I fog and visibility < difficult.	New Parar  New Parar  Value 1  Value 2  Opt. 1? N Old  New Condensed  Impact  3.1 miles (5000 n	m. 1 ID  m. 2 ID  5000 mete  None  Opt. 2 =  Fog and Re  n) reduces the te	Visibility Fog ers New Opt. 2 educed Visibility earget and backgr	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Condensed Impact?  Tound contrast making  Tound contrast making
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu  Any occurrence of target acquisition  Any occurrence of target acquisition  target acquisition  st Cavalry Division,  "Quantitative vs. Q	D visibility D fog New New Changed uced Visibility I fog and visibility < difficult. I fog and visibility < difficult.	New Parar  Value 1  Value 2  Opt. 1? N Old  New Condensed Impact  3.1 miles (5000 n  3.1 miles (5000 n	m. 1 ID  m. 2 ID  5000 mete  None  Opt. 2 =  Fog and Re  n) reduces the tent	Visibility Fog ers New Opt. 2 educed Visibility carget and backgr	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Condensed Impact? N  round contrast making  Changed Full Impact? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source New Source/ Reason for	New Color  26 Old Param. 1 I  9 Old Param. 2 I  5000  1  < New Opt. 1  Fog and Redu  Any occurrence of target acquisition  Any occurrence of target acquisition  target acquisition  target acquisition  "Quantitative vs. Q WSMR, NM. Final v	1 D visibility D fog New New Changed uced Visibility I fog and visibility < difficult. I fog and visibility < difficult.	New Parar  New Parar  Value 1  Value 2  Opt. 1? N Old  New Condensed  Impact  3.1 miles (5000 m  ecision Aids: Is Tolete.	m. 1 ID m. 2 ID 5000 mete None Opt. 2 = Fog and Re n) reduces the te	Visibility Fog ers New Opt. 2 educed Visibility carget and backgr	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Condensed Impact? N  round contrast making  Changed Full Impact? N

ID# 23 C	omponent Name	LASER R/D	Rule 1 # 114	Rule 2 # 114 Delete Rule? N
Old Color 1	New Color 1	1		Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Par	am. 1 ID Visibi	lity Changed Param. 1? N
Parameter 2 #	7 Old Param. 2 ID	drizzle New Par	am. 2 ID Drizz	cle Changed Param. 2? N
Old Value 1	5000	New Value 1	5000 meters	Changed Value 1? N
Old Value 2	1	New Value 2	Light	Changed Value 2? Y
Old Operator 1	< New Opt. 1	Changed Opt. 1? N O	ld Opt. 2 > New C	pt. 2 > Changed Opt. 2 N
Old Condensed Impact	Drizzle and Reduced	Visibility New Condensed Impact	Drizzle and Reduce	d Visibility Changed Condensed Impact?
Old Full Impact	Drizzle > light intensity a makes lasing the target		m) reduces the ranging	capability and effectiveness and
New Full Impact	Drizzle > light intensity a makes lasing the target		m) reduces the ranging	capability and effectiveness and
Old Source (1s	t Cavalry Division, 1992);			Changed Full Impact? N
New Source/		tive Tactical Decision Aids: Is	There a Difference?" Di	R. Shirkey, Dec 1997, ARL,
Comments	Research not completed.	Final results will be used to	verify rule.	
Changed Source	? <b>Y</b>	Are There Any (2) Op	tions? Y	Any Change to Record? V
				10.7.
ID# 24 C	omponent Name	LASER R/D	Rule 1 # 119	Rule 2 # 119 Delete Rule? N
Old Color 2	New Color 2	:		Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Par	am. 1 ID Visibil	Changed Param. 1? N
Parameter 2 #	9 Old Param. 2 ID	fog New Par	am. 2 ID Fog	Changed Param. 2? N
Old Value 1	3100	New Value 1	3100 meters	Changed Value 1? N
Old Value 2	1	New Value 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 <	Changed Opt. 1? N OI	d Opt. 2 = New O	pt. 2 > Changed Opt. 2 Y
Old Condensed Impact	Fog and Reduced V	Visibility New Condensed Impact	Fog and Low Vis	Changed Condensed Impact?
Old Full Impact	Any occurrence of fog at makes lasing the target v	nd visibility < 1.9 miles (3100 very difficult.	m) greatly reduces the r	ange and effectiveness and
New Full Impact	Any occurrence of fog an makes lasing the target v	nd visibility < 1.9 miles (3100 very difficult.	m) greatly reduces the r	ange and effectiveness and
Old Source (1st	Cavalry Division, 1992);			Changed Full Impact? N
ب ا		ive Tactical Decision Aids: Is	Thora a Difference?" De	P Shirkov Doc 1997 ADI
	WSMR, NM. Final verificat		There a Dillerence? Dr	. R. Shirkey, Dec 1997, ARL,
L.				
Comments	Research not completed.	Final results will be used to	verify rule.	

ID# 25 C	omponent Name	LASER R/I	)	Rule 1 # 120	Rule 2#	120 Delete Ruie? N
Old Color 2	New Color	2				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 ID	Visibilit	у	Changed Param. 1? N
Parameter 2 #	17 Old Param. 2 ID	snow	New Param. 2 ID	Snow		Changed Param. 2? N
Old Value 1	3100	New Value	1 3	100 meters		Changed Value 1? N
Old Value 2	1	New Value	2	Light		Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed Opt.	1? N Old Opt. 2	> New Op	t. 2 >	Changed Opt. 2 N
Old Condensed Impact	Snow and Reduce	ed Visibility New C	i i	now and Low Vis	ibility	Changed Condensed Impact?
Old Full Impact	Snow > light intensity lasing the target very		les (3100 m) great	y reduces the rai	nge and ef	fectiveness and makes
New Full Impact	Snow > light intensity lasing the target very		les (3100 m) great	y reduces the rai	nge and ef	fectiveness and makes
Old Source (1s	t Cavalry Division, 199	)2):				Changed Full Impact? N
New Source/		itative Tactical Decision	n Aids: Is There a	Difference?" Dr.	R. Shirkev	. Dec 1997. ARL.
	WSMR, NM. Final veri				•	,
Comments	Research not complet	ed. Final results will b	e used to verify ru	le.		
Changed Source	? Y	Are There	Any (2) Options?	Υ	Anv	Change to Record? V
			, , ,		,	
				1		
	omponent Name	LASER R/I	D	Rule 1 # 122	Rule 2#	122 Delete Rule? N
Old Color 2	New Color	2		J		Changed Color? N
Old Color 2 Parameter 1 #	New Color  26 Old Param. 1 ID	2 visibility	New Param. 1 ID	Visibili		Changed Color? N Changed Param. 1? N
Old Color 2 Parameter 1 # Parameter 2 #	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID	visibility rain	New Param. 1 ID  New Param. 2 ID	Visibili Rain		Changed Color? N Changed Param. 1? N Changed Param. 2? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100	visibility rain New Value	New Param. 1 ID  New Param. 2 ID  1 3	Visibili Rain 100 meters		Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID 3100 2	visibility rain New Value	New Param. 1 ID  New Param. 2 ID  1 3	Visibili Rain 100 meters Moderate	by	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color 26 Old Param. 1 ID 3100 2 New Opt. 1	visibility rain New Value New Value Changed Opt.	New Param. 1 ID  New Param. 2 ID  1 3  2 2  1? N Old Opt. 2	Visibilion Rain 100 meters Moderate New Op	t. 2 >	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID 3100 2	visibility rain New Value New Value Changed Opt.	New Param. 1 ID  New Param. 2 ID  1 3  2 2  1? N Old Opt. 2  Condensed Hea	Visibili Rain 100 meters Moderate	t. 2 >	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Recommendary  2	visibility rain  New Value New Value Changed Opt. duced Visibility New Clarged Impact	New Param. 1 ID New Param. 2 ID 1 1 3 2 2 1	Visibilii Rain 100 meters Moderate > New Op vy Rain and Low	t. 2 >	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Rec  Rain > moderate inte makes lasing the targetone.	visibility rain New Value New Value Changed Opt. duced Visibility New Climpace nsity and visibility < 1. get very difficult.	New Param. 1 ID New Param. 2 ID 1 1 3 2 2 1	Visibilit Rain 100 meters Moderate > New Op vy Rain and Low reatly reduces th	t. 2 > Visibility	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?  Independent of the color of the
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Received Paramakes lasing the targent Pa	visibility rain New Value New Value Changed Opt. duced Visibility New Climpace Impact nsity and visibility < 1. get very difficult.	New Param. 1 ID New Param. 2 ID 1 1 3 2 2 1	Visibilit Rain 100 meters Moderate > New Op vy Rain and Low reatly reduces th	t. 2 > Visibility e range an	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?  Independent of the color of the
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Received Paramakes lasing the targent Pa	visibility rain  New Value New Value Changed Opt. duced Visibility New Clampace Impace nsity and visibility < 1. get very difficult.  nsity and visibility < 1. get very difficult.	New Param. 1 ID New Param. 2 ID 1 1 3 2 2 1	Visibilit Rain 100 meters Moderate > New Op vy Rain and Low reatly reduces th	t. 2 > Visibility e range an	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y  Ind effectiveness and
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Rec Rain > moderate inte makes lasing the targ  Rain > moderate inte makes lasing the targ  t Cavalry Division, 199  "Quantitative vs. Qual	visibility rain  New Value New Value Changed Opt. duced Visibility New Clampace Impace nsity and visibility < 1. get very difficult.  nsity and visibility < 1. get very difficult.	New Param. 1 ID New Param. 2 ID 1	Visibilit Rain 100 meters Moderate  > New Op vy Rain and Low reatly reduces th	t. 2 > Visibility e range an	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y  Ind effectiveness and  Changed Full Impact? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3100  2  < New Opt. 1  Precipitation and Received Precipitation and Precipitat	visibility rain New Value New Value Changed Opt. duced Visibility New Climpac Impact nsity and visibility < 1. get very difficult.  Paget very difficult.  Right very difficult.	New Param. 1 ID New Param. 2 ID 1	Visibiliti Rain 100 meters  Moderate  > New Op vy Rain and Low reatly reduces th reatly reduces th	t. 2 > Visibility e range an	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y  Ind effectiveness and  Changed Full Impact? N

ID# 27 C	omponent Name	LASER R/D	Rule 1#	123 Rule 2#	123 Delete Rule? N
Old Color 2	New Color 2				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New P	aram. 1 ID	/isibility	Changed Param. 17 N
Parameter 2 #	7 Old Param. 2 ID	drizzle New P	aram. 2 ID	Drizzle	Changed Param. 2? N
Old Value 1	3100	New Value 1	3100 meters		Changed Value 1? N
Old Value 2	1	New Value 2	Light		Changed Value 2? Y
Old Operator 1	< New Opt. 1 <	Changed Opt. 1? N	Old Opt. 2 > N	ew Opt. 2 >	Changed Opt. 2 N
Old Condensed Impact	Drizzle and Reduced Vis	ibility New Condense Impact	d Drizzle and L	ow Visibility	Changed Condensed Impact?
Old Full Impact	Drizzle > light intensity and makes lasing the target very			s the range and e	effectiveness and
New Full Impact	Drizzle > light intensity and makes lasing the target very			s the range and e	effectiveness and
Old Source (1s	Cavalry Division, 1992);				Changed Full Impact? N
New Source/	'Quantitative vs. Qualitative WSMR, NM. Final verification		s There a Difference	?" Dr. R. Shirkey	, Dec 1997, ARL,
Comments	Research not completed. Fir	nal results will be used t	o verify rule.		
Changed Source	? N	Are There Any (2) C	ptions? Y	Any	Change to Record? V
ID# 28 C	omponent Name MLR	S WET CELL BATTERIE	S Rule 1#	13 Rule 2#	Delete Rule? N
Old Color 1	New Color 1				Changed Color? N
Parameter 1 #	22 Old Param. 1 ID te	mperature New Pa	ram. 1 ID Ter	nperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Pa	ram. 2 ID		Changed Param. 2?
Old Value 1	32	New Value 1	32 F		Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1? N	Old Opt. 2 N	ew Opt. 2	Changed Opt. 2
Old Condensed Impact	Cold	New Condense Impact	d Co	ild	Changed Condensed Impact?
Old Full Impact	Temperatures <= 32 F make fewer launches.	it difficult for batterires	to charge and theref	ore causes the la	nuncher to support
New Full Impact	Temperatures <= 32 F make fewer launches.	it difficult for batterires	to charge and theref	ore causes the la	nuncher to support
					Changed Full Impact? N
Old Source (1st	Cavalry Division, 1992);				
New Source/ Reason for Delete	ГМ 9-6140-200-14, Para 4-8, J	ul 1989			
Comments					
Changed Source	Y	Are There Any (2) C	ptions? N	Any	Change to Record? Y

1D # 600 0					
ID# 29 C	omponent Name M	LRS WET CELL BAT	TERIES	Rule 1 # 22 Rule	2 # Delete Rule? N
Old Color 1	New Color 1			<u> </u>	Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature N	lew Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	N	lew Param. 2 ID $igl[$		Changed Param. 2?
Old Value 1	90	New Value 1		100 F	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Hot	New Cor Impact	ndensed	Very Hot	Changed Condensed Impact?
Old Full Impact	Temperatures >= 90 F cau MLRS can support fewer I		nat impact on th	e Loader Launcher Mod	ule and therefore the
New Full Impact	Temperatures >= 100 F ca launches.	use battery failures	that impact on l	oader launcher module	causing fewer MLRS
					Changed Full Impact?
<u>.                                    </u>	t Cavalry Division, 1992);				
New Source/ Reason for Delete	TM 9-6140-200-14, Para 4-8	, Jul 1989		·	
Comments					
Changed Source	? [Y]	Are There Any	y (2) Options?	N	Any Change to Record? Y
		•	, , , ,		
				]	
<u> </u>	omponent Name	MOPP IV OPERATI	ONS	Rule 1 # 52 Rule	
Old Color 1	New Color 1			J	Changed Color?
Old Color 1 Parameter 1 #	New Color 1  14 Old Param. 1 ID	rain	New Param. 1 ID	Rain	Changed Color?  Changed Param. 1? N
Old Color 1 Parameter 1 # Parameter 2 #	New Color 1  14 Old Param. 1 ID  Old Param. 2 ID	rain N		Rain	Changed Color?  Changed Param. 1? N  Changed Param. 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color 1  14 Old Param. 1 ID	rain New Value 1	lew Param. 1 ID	Rain	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 1  14 Old Param. 1 ID Old Param. 2 ID	rain New Value 1	lew Param. 1 ID	Rain	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1 >	rain New Value 1 New Value 2 Changed Opt. 1?	New Param. 1 ID New Param. 2 ID N Old Opt. 2	Rain Light New Opt. 2	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 1  14 Old Param. 1 ID Old Param. 2 ID	rain New Value 1	New Param. 1 ID New Param. 2 ID N Old Opt. 2	Rain	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1 >  Precipitation	rain New Value 1 New Value 2 Changed Opt. 1? New Cor Impact s effectiveness. Prec	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Indensed	Rain  Light  New Opt. 2  Rain  s moist conditions whice	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1 >  Precipitation  Protective clothing looses	rain New Value 1 New Value 2 Changed Opt. 1? New Cor Impact seffectiveness. Precit powder may wash	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Ndensed	Rain  Light  New Opt. 2  Rain  s moist conditions which	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  h can clog protective mask
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1 New Opt. 1 > Precipitation  Protective clothing looses filters/canisters. Decon K	rain New Value 1 New Value 2 Changed Opt. 1? New Cor Impact seffectiveness. Precit powder may wash	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Ndensed	Rain  Light  New Opt. 2  Rain  s moist conditions which	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  h can clog protective mask
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1 New Opt. 1 > Precipitation  Protective clothing looses filters/canisters. Decon K	rain New Value 1 New Value 2 Changed Opt. 1? New Cor Impact seffectiveness. Precit powder may wash	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Ndensed	Rain  Light  New Opt. 2  Rain  s moist conditions which	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact? Y  h can clog protective mask  can clog protective mask
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source [1s	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1 Precipitation  Protective clothing looses filters/canisters. Decon K  Protective clothing loses filters/canisters.	rain  New Value 1  New Value 2  Changed Opt. 1?  New Corlimpact s effectiveness. Precipit powder may wash	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Ndensed	Rain  Light  New Opt. 2  Rain  s moist conditions which	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact? Y  h can clog protective mask  can clog protective mask
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color 1  14 Old Param. 1 ID Old Param. 2 ID  1 Precipitation  Protective clothing loose filters/canisters. Decon K  Protective clothing loses filters/canisters.	rain  New Value 1  New Value 2  Changed Opt. 1?  New Corlimpact s effectiveness. Precipit powder may wash	New Param. 1 ID New Param. 2 ID N Old Opt. 2 Ndensed	Rain  Light  New Opt. 2  Rain  s moist conditions which	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact? Y  h can clog protective mask  can clog protective mask

8. S. O. J. S.

<del></del>											
ID# 31 C	omponent Name	M	OPP IV OPER	ATIONS		Rule 1#	54	Rule 2	2#	Delete Ru	le? N
Old Color 2	New Color	2							Chai	nged Color?	N
Parameter 1 #	14 Old Param.	1 ID	rain	New Para	m. 1 ID[		Rain		CI	hanged Param	ı. 1? N
Parameter 2 #	Old Param.	2 ID		New Para	m. 2 ID[				CI	nanged Param	1. 2?
Old Value 1	2		New Value	e 1		Moderate			C	nanged Value	1? Y
Old Value 2			New Value	e 2					Cł	nanged Value	2?
Old Operator 1	> New Opt	. 1 >	Changed Opt.	1? N Old	Opt. 2		New Opt	. 2		Changed Opt	. 2
Old Condensed Impact	Pred	ipitation	New (	Condensed at		Heav	y Rain			inged idensed Impac	at? Y
Old Full Impact	Protective clothi		tive when wet.	Moisture c	logs pro	tective m	ask filte	ers/cani	isters. C	Decon Kit pov	vder
New Full Impact	Protective clothi	ng is ineffec	tive when wet.	Moisture c	logs pro	tective m	ask filte	ers/cani			-10 [V
Old Source (1st	Cavalry Division	1. 1992):							Chang	ged Full Impad	ct? Y
ــــــــــــــــــــــــــــــــــــــ	M 3-7, Page 3-2,		94	**	<del></del>						
Reason for Delete		0 0, 00p 100									
Comments											
Changed Source	? <b>Y</b>		Are There	Any (2) Opti	ons?	N		A	ny Chai	nge to Record	? <b>Y</b>
ID# 32 Co	mponent Name [	М	OPP IV OPERA	TIONS		Rule 1#	145	Rule 2	# 14	5 Delete Rul	e? N
Old Color 1	New Color	1							Char	ged Color?	N
Parameter 1 #	Old Param.	1 ID ter	mperature	New Para	n. 1 ID	Тє	mperati	ure	Ch	nanged Param	. 17 N
Parameter 2 #	Old Param.	2 ID relat	tivehumidity	New Parai	n. 2 ID	Delete R	elative	Humidi	ty Ch	nanged Param	. 27 Y
Old Value 1	70		New Value	<b>1</b>		81 F			Ch	nanged Value	1? Y
Old Value 2	50		New Value	2		Delete			Ch	nanged Value	2? Y
Old Operator 1	> New Opt	1	Changed Opt.	ـــــا	Opt. 2 [	> 1	New Opt.	. 2 D	elete	Changed Opt.	2 Y
Old Condensed Impact	Temperature an	d Relative Hu	umidity New C	Condensed t		Temp	erature		Cha Con	nged densed Impac	:t? Y
	Combination of degrades soldier							g unde	r MOPP	IV condition	S
New Full Impact	Temperatures > activities which			MOPP IV,	conditio	ns degra	de soldi	er effec	ctivenes	s and limit	
									Chang	ged Full Impac	t? Y
Old Source (1st	Cavalry Division	ı, 1992);									
New Source/ Reason for Delete	M 3-7, Table 3-6	, Sep 1994									
Comments	Reference to Rela	ative Humidit	ty deleted since	e the use of	temper	ature alo	ne is mo	re repr	esentat	ive.	
Changed Source?	Y		Are There	Any (2) Option	ons?	Y		Α	ny Char	nge to Record	? <b>Y</b>

ID# 33 C	component Name	MOPP IV OPERA	TIONS	Rule 1 # 146	Rule 2#	146 Delete Rule? N
Old Color 2	New Color	2				Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Тетрега	ture	Changed Param. 17 N
Parameter 2 #	15 Old Param. 2 ID	relativehumidity	New Param. 2 ID	Delete Relative	Humidity	Changed Param. 27 N
Old Value 1	85	New Value	1	88 F		Changed Value 1? Y
Old Value 2	70	New Value		Delete		Changed Value 2? Y
Old Operator 1	> New Opt. 1	> Changed Opt. 1	1? N Old Opt. 2	> New Op	t. 2 Dele	ete Changed Opt. 2 Y
Old Condensed Impact	Temperature and Rela	Ative Humidity New Compact	ondensed	Hot		Changed Condensed Impact?
Old Full Impact	Combination of tempe severly degrades sold					MOPP IV conditions
New Full Impact	Temperatures > 88 F,	while operating under	MOPP IV, condition	ons eliminate fea	sible work	/rest cycles.
•						
						Changed Full Impact? Y
Old Source (1s	st Cavalry Division, 1992	2);				
New Source/ Reason for Delete	FM 3-7, Table 3-6, Sep	1994				
Comments	Reference to Relative H	lumidity deleted since	the use of tempe	rature alone is m	ore repres	sentative.
Changed Source	? Y	Are There A	ny (2) Options?	Y	Any	/ Change to Record? Y
ū					•	_
		•				
					l B L 0"	Dalata Dalata N
	Component Name	NI CAD BATTE	ERY	Rule 1 # <b>24</b>	Rule 2#	
Old Color 1	New Color	1				Changed Color? N
Old Color 1 Parameter 1 #	New Color  22 Old Param. 1 ID		New Param. 1 ID	Rule 1 # 24		Changed Color?  Changed Param. 1? N
Old Color 1 Parameter 1 # Parameter 2 #	New Color  22 Old Param. 1 ID  Old Param. 2 ID	1 temperature	New Param. 1 ID	Tempera		Changed Color? N Changed Param. 1? N Changed Param. 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color  22 Old Param. 1 ID	temperature  New Value	New Param. 1 ID New Param. 2 ID			Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100	temperature  New Value  New Value	New Param. 1 ID New Param. 2 ID	Tempera	ture	Changed Color? N Changed Param. 1? N Changed Param. 2? Changed Value 1? N Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1	temperature  New Value New Value Changed Opt.	New Param. 1 ID New Param. 2 ID	Tempera 100 F New Op	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100	temperature  New Value New Value Changed Opt.	New Param. 1 ID New Param. 2 ID 1 1 2 2 17 N Old Opt. 2	Tempera	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot	temperature  New Value New Value Changed Opt.	New Param. 1 ID New Param. 2 ID 1	Tempera 100 F New Or Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c	New Param. 1 ID New Param. 2 ID 1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot  Temperatures >= 100	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c	New Param. 1 ID New Param. 2 ID 1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot  Temperatures >= 100  Temperatures >= 100	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c	New Param. 1 ID New Param. 2 ID 1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1:	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot  Temperatures >= 100  t Cavalry Division, 199	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c F reduce efficiency an	New Param. 1 ID  New Param. 2 ID  1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot  Temperatures >= 100  Temperatures >= 100	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c F reduce efficiency an	New Param. 1 ID  New Param. 2 ID  1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1: New Source/ Reason for	New Color  22 Old Param. 1 ID  Old Param. 2 ID  100  >= New Opt. 1  Hot  Temperatures >= 100  t Cavalry Division, 199	temperature  New Value New Value Changed Opt. New C Impact F have a tendancy to c F reduce efficiency an	New Param. 1 ID  New Param. 2 ID  1	Tempera  100 F  New Op  Very Hot	ture	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?

ID# 35 C	omponent Name Ni	GHT VISION GOGG	ILES	Rule 1 # 147 Rule :	2 # Delete Rule? N
Old Color 2	New Color 2			<del></del>	Changed Color? N
Parameter 1 #	28 Old Param. 1 ID ill	umination Ne	ew Param. 1 ID	Illumination	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	Ne	w Param. 2 ID		Changed Param. 2?
Old Value 1	2	New Value 1	2	2.5 millilux	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Illumination	New Cond Impact	lensed	Reduced Illumination	Changed Condensed Impact?
Old Full Impact	Ambient illumination values	< 2.5 millilux are u	nfavorable for o	certain NVG operations,	
	· · · · · · · · · · · · · · · · · · ·				
New Full Impact	Ambient illumination values	< 2.5 millilux are u	nfavorable for o	certain NVG operations,	e.g., navigation.
Old Carries (A	D				Changed Full Impact? N
المرابع المرابع	ny Research Lab, 1997);				
New Source/ Reason for Delete	/alue determined by Dave Sa	uter, Army Researd	ch Lab, 1997		
Comments					
Changed Source	Y	Are There Any	(2) Options?	N A	Any Change to Record? Y
ID# 36 Co	mponent Name Ni	SHT VISION GOGG	LES	Rule 1 # 148 Rule 2	
Old Color 1	New Color 1				Changed Color? N
Parameter 1 #	28 Old Param. 1 ID ill	umination Ne	w Param. 1 ID	Illumination	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID		w Param. 2 ID		Changed Param. 2?
Old Value 1	3	New Value 1	3.	.5 millilux	Changed Value 1? Y
Old Value 2		New Value 2	<u></u>		Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Illumination	New Cond Impact	ensed F	Reduced Illumination	Changed Condensed Impact?
Old Full Impact	Ambient illumination values	< 3.5 millilux are m	arginal for cert	ain NVG operations, e.g	, navigation.
į					
New Full Impact	Ambient illumination values	< 3.5 millilux are m	arginal for cert	ain NVG operations, e.g	, navigation.
		< 3.5 millilux are m	arginal for cert	ain NVG operations, e.g	Changed Full Impact? N
Old Source (Arr	ny Research Lab, 1997);			ain NVG operations, e.g	
Old Source (Arm				ain NVG operations, e.g	
Old Source (Arm New Source/ Reason for	ny Research Lab, 1997);			ain NVG operations, e.g	

ID# 37 Component Name NIGHT VISION SIGHT Rule 1 # 21 Rule 2 # Delete Rule? Y
Old Color 2 New Color Changed Color?
Parameter 1 # 22 Old Param. 1 ID temperature New Param. 1 ID Changed Param. 1?
Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2?
Old Value 1 125 New Value 1 Changed Value 1?
Old Value 2 Changed Value 2?
Old Operator 1 >= New Opt. 1 Changed Opt. 1? Old Opt. 2 New Opt. 2 Changed Opt. 2
Old Condensed Impact New Condensed Impact Changed Condensed Impact
Old Full Impact Temperatures >= 125 F exceed the operating limits of the system.
New Full Impact
Changed Full Impact?
Old Source (1st Cavalry Division, 1992);
New Source/ Reason for Delete  Delete Rule: Could not validate and may be too system specific for general class of all night vision sight.
Comments
·
Changed Source? Y Are There Any (2) Options? N Any Change to Record? Y
ID# 38 Component Name NIGHT VISION SIGHT Rule 1 # 147 Rule 2 # Delete Rule? N
Old Color 2 New Color 2 Changed Color? N
Parameter 1 # 28 Old Param. 1 ID illumination New Param. 1 ID Illumination Changed Param. 1? N
Parameter 2 # Old Param. 2 ID New Param. 2 ID Changed Param. 2?
Old Value 1 2 New Value 1 2.5 millilux Changed Value 1? Y
Old Value 2
Old Operator 1
Old Condensed Impact Reduced Illumination New Condensed Impact Condensed Impact Reduced Illumination Changed Condensed Impact?
Old Full Impact Ambient illumination values < 2.5 millilux are unfavorable for effective night vision sight use.
New Full Impact Ambient illumination values < 2.5 millilux are unfavorable for effective night vision sight use.
Changed Full Impact? N
Old Source (Army Research Lab, 1997);
New Source/ Reason for Delete Value determined by Dave Sauter, Army Research Lab, 1997 Research Lab, 1997
Comments
Changed Source? Y Are There Any (2) Options? N Any Change to Record? Y

ID# 39 C	omponent Name	NIGHT VISION SIG	GHT	Rule 1#	148 Rule 2	# Delete Rule? N
Old Color 1	New Color 1			_	<del></del>	Changed Color? N
Parameter 1 #	28 Old Param. 1 ID	illumination	New Param. 1 ID	1111	umination	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	N	New Param. 2 ID			Changed Param. 2?
Old Value 1	3	New Value 1		3.5 millilux		Changed Value 1? Y
Old Value 2		New Value 2				Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	N	lew Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Illumina	ition New Cor Impact	ndensed	Reduced I	llumination	Changed Condensed Impact?
Old Full Impact	Ambient illumination val	ues < 3.5 millilux are	marginal for eff	ective nigh	t vision sight u	se.
New Full Impact	Ambient illumination val	ues < 3.5 millilux are	marginal for eff	ective nigh	t vision sight u	se.
						Changed Full Impact? N
Old Source (Ar	my Research Lab, 1997);					
	Value determined by Dave	Sauter, Army Resea	rch Lab, 1997			
Reason for Delete					`	
Comments						
Changed Source	? Y	Are There An	y (2) Options?	N	Ar	ny Change to Record?
3		•	, , , ,			
		OA COSA ANTENI		] Dui: 4.#	Dut- 2	# Delete Dule? V
	omponent Name	OA-9054 ANTENI	NA	Rule 1 #	69 Rule 2 :	
Old Color 1	New Color				69 Rule 2 :	Changed Color?
Old Color 1 Parameter 1 #	New Color 21 Old Param. 1 ID si	urfacewindspeed	lew Param. 1 ID		<b>69</b> Rule 2 :	Changed Color?  Changed Param. 1?
Old Color 1 Parameter 1 # Parameter 2 #	New Color 21 Old Param. 1 ID si Old Param. 2 ID	urfacewindspeed N			69 Rule 2 :	Changed Color?  Changed Param. 1?  Changed Param. 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color 21 Old Param. 1 ID si	urfacewindspeed N New Value 1	lew Param. 1 ID		69 Rule 2	Changed Color? Changed Param. 1? Changed Param. 2? Changed Value 1?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 21 Old Param. 1 ID si Old Param. 2 ID 35	urfacewindspeed N New Value 1 New Value 2	lew Param. 1 ID			Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  21 Old Param. 1 ID Si Old Param. 2 ID  35  >= New Opt. 1	New Value 1 New Value 2 Changed Opt. 1?	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2		69 Rule 2 :	Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 21 Old Param. 1 ID si Old Param. 2 ID 35	New Value 1 Changed Opt. 1?	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2			Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  21 Old Param. 1 ID Si Old Param. 2 ID  35  >= New Opt. 1	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind	New Value 2 Changed Opt. 1? New Cor	lew Param. 1 ID lew Param. 2 ID  Old Opt. 2	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind  Surface wind >= 35 knots	New Value 2 Changed Opt. 1? New Cor Impact s may cause damage	lew Param. 1 ID lew Param. 2 ID Old Opt. 2 Indensed to masts if fully	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st New Source/ Reason for Delete	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind  Surface wind >= 35 knots	New Value 2 Changed Opt. 1? New Cor Impact s may cause damage	lew Param. 1 ID lew Param. 2 ID Old Opt. 2 Indensed to masts if fully	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st New Source/ Reason for	New Color  21 Old Param. 1 ID si Old Param. 2 ID  35  >= New Opt. 1  Surface Wind  Surface wind >= 35 knots	New Value 2 Changed Opt. 1? New Cor Impact s may cause damage	lew Param. 1 ID lew Param. 2 ID Old Opt. 2 Indensed to masts if fully	N		Changed Color?  Changed Param. 1?  Changed Param. 2?  Changed Value 1?  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?

	Rule 1 # 71 Rule 2 # Delete Rule? Y
ID# 41 Component Name OA-9054 ANTENNA Old Color 2 New Color	Changed Color?
	aram. 1 ID Changed Param. 17
	aram. 2 ID Changed Param. 27
Old Value 1 50 New Value 1	Changed Value 1?
Old Value 2 New Value 2	Changed Value 2?
Old Operator 1 >= New Opt. 1 Changed Opt. 1?	Old Opt. 2 New Opt. 2 Changed Opt. 2
Old Condensed Surface Wind New Condensed Impact	Changed Condensed Impact?
Old Full Impact Surface wind >= 50 knots will cause damage to mas	ts if fully extended.
New Full Impact	
1.01.01.01.01.01.01.01.01.01.01.01.01.01	Channel Full Impact?
Old Source (1st Cavalry Division, 1992);	Changed Full Impact?
New Source/ Delete Rule: Could not find any reference material.	
Reason for Delete	
Comments	
Changed Source? Y Are There Any (2) C	options? N Any Change to Record? Y
ID # 42 Component Name OPTICAL SIGHT	Rule 1 # 109 Rule 2 # 109 Delete Rule? N
ID # 42 Component Name OPTICAL SIGHT Old Color 1 New Color 1	Rule 1 # 109 Rule 2 # 109 Delete Rule? N Changed Color? N
Old Color 1 New Color 1	
Old Color 1 New Color 1 Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 1	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  aram. 2 ID  Drizzle  Changed Param. 2? N
Old Color 1 New Color 1 Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 1	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  aram. 2 ID  Drizzle  Changed Param. 2? N  5000 meters  Changed Value 1? N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1?  Drizzle  Changed Param. 2?  N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 5000 New Value 1  Old Value 2 0 New Value 2	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  aram. 2 ID  Drizzle  Changed Param. 2? N  5000 meters  Changed Value 1? N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 5000 New Value 1  Old Value 2 0 New Value 2	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  Changed Param. 2? N  5000 meters  Changed Value 1? N  None  Changed Value 2? Y  Old Opt. 2  New Opt. 2  Changed Opt. 2 N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Value 1 New Value 1 Old Value 2 0 New Value 2 Old Operator 1 < New Opt. 1 < Changed Opt. 1? New Opt. 1 Changed Opt. 1? New Condensed Impact	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  aram. 2 ID  Drizzle  Changed Param. 2? N  5000 meters  Changed Value 1? N  None  Changed Value 2? Y  Old Opt. 2 > New Opt. 2 > Changed Opt. 2 N  and Drizzle and Reduced Visibility  Changed  N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Value 1 New Value 1 Old Value 2 Old Operator 1 < New Opt. 1 < Changed Opt. 1? Now Opt. 1 < Changed Opt. 1? Now Condensed Impact Old Full Impact Any occurrence of drizzle and visibility < 3.1 miles of the color of the	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  Changed Param. 2? N  5000 meters  Changed Value 1? N  None  Changed Value 2? Y  Old Opt. 2 > New Opt. 2 > Changed Opt. 2 N  ed  Drizzle and Reduced Visibility  Changed  Condensed Impact?  N  (5000 m) reduces the contrast between the target and the
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Value 1  Old Value 2 0 New Value 2  Old Operator 1 < New Opt. 1 < Changed Opt. 1? New Condensed Impact  Old Condensed Impact  Old Full Impact  Any occurrence of drizzle and visibility < 3.1 miles to background and makes target acquisition difficult.  New Full Impact  Any occurrence of drizzle and visibility < 3.1 miles to background and makes target acquisition difficult.	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  Changed Param. 2? N  5000 meters  Changed Value 1? N  None  Changed Value 2? Y  Old Opt. 2 > New Opt. 2 > Changed Opt. 2 N  ed  Drizzle and Reduced Visibility  Changed  Condensed Impact?  N  (5000 m) reduces the contrast between the target and the
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Value 1  Old Value 2 0 New Value 2  Old Operator 1 < New Opt. 1 < Changed Opt. 1? New Condensed Impact  Old Condensed Impact  Old Full Impact  Any occurrence of drizzle and visibility < 3.1 miles to background and makes target acquisition difficult.  New Full Impact  Any occurrence of drizzle and visibility < 3.1 miles to background and makes target acquisition difficult.	Changed Color?  Naram. 1 ID  Visibility  Changed Param. 1? Naram. 2 ID  Drizzle  Changed Param. 2? Naram. 2 ID  Source  Changed Value 1?  None  Changed Value 2?  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  Naram. 2 ID  Naram. 2 ID  Naram. 2 ID  Changed Param. 2 ID  Naram.
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle 1 New Value 1  Old Value 2 0 New Value 2  Old Operator 1 < New Opt. 1 < Changed Opt. 1? New Condensed Impact  Old Condensed Impact	Changed Color?  Naram. 1 ID  Visibility  Changed Param. 1? Naram. 2 ID  Drizzle  Changed Param. 2? Naram. 2 ID  Source  Changed Value 1?  None  Changed Value 2?  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  None  Changed Value 2?  Changed Opt. 2  Naram. 2 ID  Naram. 2 ID  Naram. 2 ID  Naram. 2 ID  Changed Param. 2 ID  Naram.
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Parameter 2 # 7 Old Param. 2 ID drizzle New Value 1  Old Value 2 0 New Value 2  Old Operator 1 < New Opt. 1 < Changed Opt. 1? New Condensed Impact  Old Condensed Impact Drizzle and Reduced Visibility New Condensed Impact  Old Full Impact Any occurrence of drizzle and visibility < 3.1 miles background and makes target acquisition difficult.  New Full Impact Any occurrence of drizzle and visibility < 3.1 miles background and makes target acquisition difficult.  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for "Quantitative vs. Qualitative Tactical Decision Aids: WSMR, NM.	Changed Color?  N  aram. 1 ID  Visibility  Changed Param. 1? N  The standard Param. 2? N  Source Param. 2? N  Changed Value 1?  None  Changed Value 2?  Changed Value 2?  Changed Value 2?  The standard Param. 2? N  None  Changed Value 2?  Changed Opt. 2  Changed Opt. 2  Changed Opt. 2  N  The standard Param. 2? N  Changed Value 2?  Changed Value 2?  Changed Opt. 2  Changed Param. 2?  The standard Value 2?  The

ID# 42 0				
ID# 43 C	omponent Name	OPTICAL SIGHT	Rule 1 # 11	Rule 2 # 110 Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Pa	ram. 1 ID Visib	ility Changed Param. 1? N
Parameter 2 #	14 Old Param. 2 ID	rain New Pa	ram. 2 ID Ra	in Changed Param. 2? N
Old Value 1	5000	New Value 1	5000 meters	Changed Value 1? N
Old Value 2	0	New Value 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 <	Changed Opt. 1? N C	old Opt. 2 > New 0	Opt. 2 > Changed Opt. 2 N
Old Condensed Impact	Precipitation and Reduced	Visibility New Condensed Impact	Rain and Reduced	Changed Condensed Impact?
Old Full Impact	Any occurrence of rain and background and makes targ	•	0 m) reduces the contra	st between the target and the
New Full Impact	Any occurrence of rain and background and makes tare		0 m) reduces the contra	st between the target and the
				Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);			
New Source/ Reason for Delete	"Quantitative vs. Qualitative WSMR, NM.	Tactical Decision Aids: Is	s There a Difference?" D	r. R. Shirkey, Dec 1997, ARL,
Comments				
Changed Source	? [Y]	Are There Any (2) Op	otions? Y	Any Change to Record? Y
J			استنا	, с
ID# 44 0	A Name of the second se	ORTICAL SIGUE	Dulo 1 # 444	Pule 2 # 444   Delete Pule 2 M
	omponent Name	OPTICAL SIGHT	Rule 1 # 11 <sup>2</sup>	
Old Color 1	New Color 1			Changed Color? N
Old Color 1 Parameter 1 #	New Color 1 26 Old Param. 1 ID	visibility New Par	ram. 1 ID Visib	Changed Color? N  ility Changed Param. 1? N
Old Color 1 Parameter 1 # Parameter 2 #	New Color         1           26         Old Param. 1 ID           17         Old Param. 2 ID	visibility New Par	ram. 1 ID Visib	Changed Color?  N  ility Changed Param. 1? N  w Changed Param. 2? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000	visibility New Par snow New Par New Value 1	ram. 1 ID Visib ram. 2 ID Sno 5000 meters	Changed Color?  N  ility Changed Param. 1? N  W Changed Param. 2? N  Changed Value 1? N
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 1 26 Old Param. 1 ID 17 Old Param. 2 ID 5000	visibility New Parsnow New Parsnow New Value 1 New Value 2	ram. 1 ID Visib ram. 2 ID Sno 5000 meters None	Changed Color?  N  ility Changed Param. 1? N  w Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000	visibility New Parsense New Value 1 New Value 2 Changed Opt. 1? N O	ram. 1 ID Visib ram. 2 ID Sno 5000 meters None	Changed Color?  N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Vision	visibility New Parsense New Value 2  Changed Opt. 1? N Opibility New Condense of Impact	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 > New C	Changed Color?  N  ility Changed Param. 1? N  ow Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Vision	visibility  New Par  New Value 1  New Value 2  Changed Opt. 1? N O  ibility  New Condensed Impact  Ind visibility < 3.1 miles (50)	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 > New C	Changed Color?  N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Visi  Any occurrence of snow and background and makes targeton.	visibility  New Par  New Value 1  New Value 2  Changed Opt. 1? N O  ibility  New Condensed Impact  ad visibility < 3.1 miles (50 get acquisition difficult.  ad visibility < 3.1 miles (50 get acquisition difficult)	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 New C  Snow and Reduced  100 m) reduces the contr	Changed Color?  N  ility Changed Param. 1? N  ow Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Visitance of Snow and background and makes target.	visibility  New Par  New Value 1  New Value 2  Changed Opt. 1? N O  ibility  New Condensed Impact  ad visibility < 3.1 miles (50 get acquisition difficult.  ad visibility < 3.1 miles (50 get acquisition difficult)	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 New C  Snow and Reduced  100 m) reduces the contr	Changed Color?  N  Changed Param. 1? N  W  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility  Changed  Condensed Impact?  N  ast between the target and the
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Visitance of Snow and background and makes target.	visibility  New Par  New Value 1  New Value 2  Changed Opt. 1? N O  ibility  New Condensed Impact  ad visibility < 3.1 miles (50 get acquisition difficult.  ad visibility < 3.1 miles (50 get acquisition difficult)	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 New C  Snow and Reduced  100 m) reduces the contr	Changed Color?  N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed Condensed Impact? N  ast between the target and the
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Vision  Any occurrence of snow and background and makes target to the color of	visibility  New Pan  New Value 1  New Value 2  Changed Opt. 1? N O  ibility New Condensed Impact  Ind visibility < 3.1 miles (50 opet acquisition difficult.  Ind visibility < 3.1 miles (50 opet acquisition difficult.	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 > New C  Snow and Reduce  100 m) reduces the contr	Changed Color?  N  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed Condensed Impact? N  ast between the target and the
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	New Color 1  26 Old Param. 1 ID  17 Old Param. 2 ID  5000  0  < New Opt. 1 <  Snow and Reduced Visit  Any occurrence of snow and background and makes target to Cavalry Division, 1992);  "Quantitative vs. Qualitative	visibility  New Pan  New Value 1  New Value 2  Changed Opt. 1? N O  ibility New Condensed Impact  Ind visibility < 3.1 miles (50 opet acquisition difficult.  Ind visibility < 3.1 miles (50 opet acquisition difficult.	ram. 1 ID Visib ram. 2 ID Sno  5000 meters  None  Id Opt. 2 > New C  Snow and Reduce  100 m) reduces the contr	Changed Color?  N  ility Changed Param. 1? N  w Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Opt. 2 > Changed Opt. 2 N  d Visibility Changed  Condensed Impact? N  rast between the target and the  Changed Full Impact? N

ID # 45   Component Name   OPTICAL SIGHT   Rule 1 #   112   Rule 2 #   112   Delete Rule?	N
Old Color 1 New Color 1 Changed Color?	N
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?	N
Parameter 2 # 1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2?	N
Old Value 1 5000 New Value 1 5000 meters Changed Value 1?	N
Old Value 2 None Changed Value 2?	Υ
Old Operator 1	Y
Old Condensed Impact    Blowing Sand and Reduced Visibility   New Condensed Impact   Blowing Sand and Reduced Visibility   Condensed Impact   Cond	N
Old Full Impact Any occurrence of blowing sand and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.	
New Full Impact Any occurrence of blowing sand and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.	
	N
Old Source (1st Cavalry Division, 1992);	
New Source/ Reason for Delete "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.	
Comments	
Changed Source? Y Are There Any (2) Options? Y Any Change to Record?	Y
ID # AS Compared Name OPTICAL SIGUT Pule 1 # 142 Pule 2 # 142 Poleto Pule 2	
	N
Old Color 1 New Color 1 Changed Color?	N
Old Color 1 New Color 1 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?	N N
Old Color 1 New Color 1 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?	N N N
Old Color 1 New Color 1 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?	N N N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?	N N N
Old Color 1 New Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Fog and Reduced Visibility New Condensed Fog and Reduced Visibility Changed	N N N N
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 17  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2 17  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Pog and Reduced Visibility New Condensed Impact  Old Full Impact Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the	N N N Y Y
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Fog and Reduced Visibility New Condensed Impact  Old Full Impact  Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.	N N N Y Y
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 17  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2 17  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Pog and Reduced Visibility New Condensed Impact  Old Full Impact Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the	N N N Y Y
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Pog and Reduced Visibility New Condensed Impact Pog and Reduced Visibility Changed Condensed Impact  Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  New Full Impact  Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.	N N N Y Y
Old Color 1 New Color 1  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Pog and Reduced Visibility New Condensed Impact Pog and Reduced Visibility Changed Condensed Impact  Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  New Full Impact  Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.	N N N Y Y
Old Color 1 New Color 1 New Color 1 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2?  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Pog and Reduced Visibility New Condensed Impact Condensed Impact  Old Full Impact Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  New Full Impact Changed Fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  Changed Full Impact?	N N N Y Y
Old Color 1 New Color 1 New Color 1 New Color 1 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 17  Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 27  Old Value 1 5000 New Value 1 5000 meters Changed Value 1?  Old Value 2 1 New Value 2 None Changed Value 2?  Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2  Old Condensed Impact Fog and Reduced Visibility New Condensed Impact Condensed Impact Condensed Impact  Old Full Impact Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  New Full Impact Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the contrast between the target and the background and makes target acquisition difficult.  Changed Full Impact?  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for WSMR, NM.	N N N Y Y

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ID# 47 C	Compone	nt Name		OPTICA	AL SIGH	IT		Rule 1#	115	Rule 2	# [	115	Delete Ru	ıle? ∫i	1
Old Color 2		New Color	2					_			CI	hange	d Color?	1	1
Parameter 1 #	<b>26</b> OI	d Param. 1	ID	visibility		New Para	m. 1 ID[	1	Visibilit	у		Chan	ged Paran	n. 17 N	1
Parameter 2 #	7 01	d Param. 2	ID	drizzle		New Para	m. 2 ID		Drizzle		司	Chan	ged Paran	n. 2? [	1
Old Value 1		3100		New	Value 1	1	3	100 meters	5			Chan	ged Value	1? 🖪	ī
Old Value 2		0		New	Value 2	2		None				Chan	ged Value	2? 1	Ī
Old Operator 1	<	New Opt.	1 <	Changed	l Opt. 1'	? N Old	Opt. 2	> N	lew Opt	. 2	>	Ch	anged Op	t. 2 🚺	Ī
Old Condensed Impact	Driz	zie and Re	duced Visi	- 1	New Co Impact	ndensed	Di	rizzle and l	Low Vis	ibility		hange onder	ed nsed Impa	ct?	<b>'</b>
Old Full Impact	Any oc making	currence o	of drizzle ar quisition ve	ıd visibilit ry difficul	y < 1.9 t and is	miles (31 near the	00 m) re minimu	educes the	target e range	and bad	ckgro	ound	contrast		
New Full Impact			of drizzle an quisition ve												
Old Source (1s	t Cavaln	y Division,	1992):							<del>.</del>	ຸCha ີ	anged	Full Impa	ct? N	<u>.</u>
New Source/		tative vs. C	Qualitative	Factical D	ecision	Aids: Is 1	here a	Difference	?" Dr. F	R. Shirk	ey, C	Dec 19	997, ARL,		
Comments			70 TO TO THE PARTY OF THE PARTY												آ
Changed Source	? <b>Y</b>			Are T	here An	y (2) Optio	ons?	Υ		A	ny Cl	hange	to Record	? Y	-
ID# 48 C	omnonor.	ot Nama		OPTICA	I SICU	T		Rule 1 #	446	Dula 2	<b>4</b> [	440	Dalete Du	102 N	_
Old Color 2	omponer	lew Color	2	OPTICA	L SIGN	<u> </u>		Rule 1#	116	Rule 2	-		Delete Ru d Color?	le? N	_
L		d Param. 1		 /isibility		lew Parar	n 1 ID	<u>\</u>	/isibility			_	ged Param	<u> </u>	⇉
Parameter 2 #		d Param. 2		rain		lew Parar	_		Rain				ged Param		=
Old Value 1		3100		1	Value 1			100 meters					ged Value		=
Old Value 2		0		J	Value 2			None					ged Value	<u></u>	_
Old Operator 1	<	New Opt. 1	ı <	Changed			Opt. 2		ew Opt.	2	>	_ `	anged Opt	<u></u>	Ξ'
Old Condensed Impact	Precipi	-	Reduced V	isibility				lain and Lo				_ hange			
Old Full Impact			f rain and v very difficu						get and	i backg	roun	d con	trast mak	ing	]
New Full Impact			f rain and v very difficu						get and	i backg	roun	d con	trast mak	ing	
Old Source (1st	t Cavaln	Division,	1992).		1						Cha	anged	Full Impac	ct? N	
New Source/		ative vs. Q	ualitative T	actical De	ecision	Aids: Is T	here a l	Difference	?" Dr. R	R. Shirk	⊒ ey, D	ec 19	97, ARL,		
Comments												.,=		·····	آ
Changed Source	? Y	v.		Are T	nere An	y (2) Optic	ns?	Y		Ar	ny Ch	nange	to Record	? <b>Y</b>	

ID#   49   C	omponent Name	OPTICAL SIG	SHT	Rule 1 # 117 Rule	2 # 117 Delete Rule? N
Old Color 2	New Color	2			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	17 Old Param. 2 ID	snow	New Param. 2 ID	Snow	Changed Param. 27 N
Old Value 1	3100	New Value	e 1 3	100 meters	Changed Value 1? N
Old Value 2	0	New Value	e 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed Opt.	1? N Old Opt. 2	> New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Snow and Reduce	ed Visibility New (		now and Low Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of sn target acquisition ver				ckground contrast making
New Full Impact	Any occurrence of sn target acquisition ver				ckground contrast making
					Changed Full Impact?
•	t Cavalry Division, 199	·			
New Source/ Reason for Delete	"Quantitative vs. Quali WSMR, NM.	tative Tactical Decision	on Aids: Is There a	Difference?" Dr. R. Shi	rkey, Dec 1997, ARL,
Comments					
	- [				
Changed Source	? Y	Are There	Any (2) Options?	Υ	Any Change to Record?
ID# 50 C					
	component Name	OPTICAL SIG	GHT	Rule 1 # 118 Rule	2 # 118 Delete Rule? N
Old Color 2	New Color	OPTICAL SIG	SHT	Rule 1 # 118 Rule	Changed Color? N
Old Color 2 Parameter 1 #		2 visibility	GHT  New Param. 1 ID	Rule 1 # 118 Rule  Visibility	Changed Color? N Changed Param. 1? N
	New Color	2			Changed Color?    Changed Param. 17 N     Changed Param. 27 N
Parameter 1 #	New Color  26 Old Param. 1 ID	2 visibility	New Param. 1 ID  New Param. 2 ID	Visibility	Changed Color? N Changed Param. 1? N
Parameter 1 # Parameter 2 #	New Color  26 Old Param. 1 ID [  1 Old Param. 2 ID [	visibility blowingsand	New Param. 1 ID New Param. 2 ID e 1	Visibility Blowing Sand	Changed Color?    N
Parameter 1 # Parameter 2 # Old Value 1	New Color  26 Old Param. 1 ID [ 1 Old Param. 2 ID [ 3100  1 New Opt. 1	visibility blowingsand New Value New Value Changed Opt.	New Param. 1 ID New Param. 2 ID e 1 3 e 2 1? N Old Opt. 2	Visibility Blowing Sand 100 meters None  New Opt. 2	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y
Parameter 1 #  Parameter 2 #  Old Value 1  Old Value 2	New Color  26 Old Param. 1 ID [ 1 Old Param. 2 ID [ 3100  1	visibility blowingsand New Value New Value Changed Opt.	New Param. 1 ID New Param. 2 ID e 1 3 e 2 1? N Old Opt. 2 Condensed Blow	Visibility Blowing Sand 100 meters None	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibility	visibility blowingsand New Value New Value Changed Opt. d Reduced New O	New Param. 1 ID New Param. 2 ID e 1 3 e 2 1? N Old Opt. 2 Condensed Blow et	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  iility Changed
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibilit  Any occurrence of blomaking target acquisi	visibility blowingsand New Value New Value Changed Opt. d Reduced y Impact Dowing sand and visibilition very difficult and	New Param. 1 ID  New Param. 2 ID  e 1 3  e 2  1? N Old Opt. 2  Condensed Blowdt  lity < 1.9 miles (310  is near the minimum.	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib 00 m) reduces the targe um useable range	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Sility Changed Condensed Impact?
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibilit  Any occurrence of blomaking target acquisit  Any occurrence of blomaking target acquisity	visibility blowingsand New Value New Value Changed Opt. d Reduced y Impact Dowing sand and visibilition very difficult and	New Param. 1 ID  New Param. 2 ID  e 1 3  e 2  1? N Old Opt. 2  Condensed Blowdt  lity < 1.9 miles (310  is near the minimum.	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib 00 m) reduces the targe um useable range	Changed Color?  Changed Param. 17 N  Changed Param. 27 N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  illity Changed Condensed Impact?  t and background contrast
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibilit  Any occurrence of blomaking target acquisit  Any occurrence of blomaking target acquisity	visibility blowingsand New Value Changed Opt. d Reduced y Impact owing sand and visibilition very difficult and	New Param. 1 ID  New Param. 2 ID  e 1 3  e 2  1? N Old Opt. 2  Condensed Blowdt  lity < 1.9 miles (310  is near the minimum.	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib 00 m) reduces the targe um useable range	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  illity Changed Condensed Impact? Y  t and background contrast  t and background contrast
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibilit  Any occurrence of blomaking target acquisit  Any occurrence of blomaking target acquisite  to Cavalry Division, 199	visibility blowingsand New Value New Value Changed Opt. d Reduced y Impact brition very difficult and cowing sand and visibilition very difficult and cowing sand and visibilition very difficult and	New Param. 1 ID New Param. 2 ID e 1 3 e 2 1? N Old Opt. 2 Condensed Blowd tt lity < 1.9 miles (310 is near the minimal ity < 1.9 miles (310 is near the minimal	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib 00 m) reduces the targe um useable range	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Opt. 2 Y  Changed Impact? Y  t and background contrast  Changed Full Impact? N
Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	New Color  26 Old Param. 1 ID  1 Old Param. 2 ID  3100  1  < New Opt. 1  Blowing Sand and Visibility Any occurrence of blomaking target acquisity Any occurrence of blomaking target acquisity  Cavalry Division, 199  "Quantitative vs. Qual	visibility blowingsand New Value New Value Changed Opt. d Reduced y Impact brition very difficult and cowing sand and visibilition very difficult and cowing sand and visibilition very difficult and	New Param. 1 ID New Param. 2 ID e 1 3 e 2 1? N Old Opt. 2 Condensed Blowd tt lity < 1.9 miles (310 is near the minimal ity < 1.9 miles (310 is near the minimal	Visibility Blowing Sand 100 meters None New Opt. 2 ing Sand and Low Visib 00 m) reduces the targe um useable range 00 m) reduces the targe	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 Y  Changed Opt. 2 Y  Changed Impact? Y  t and background contrast  Changed Full Impact? N

	component Name	L	OPTICAL SIG	HT	Rule 1 # 119	Rule 2 # 119 Delete Rule? N
Old Color 2	New Col	lor 2				Changed Color? N
Parameter 1 #	26 Old Paran	n. 1 ID	visibility	New Param. 1 ID	Visibilit	
Parameter 2 #	9 Old Paran	n. 2 ID	fog	New Param. 2 ID	Fog	Changed Param. 2? N
Old Value 1	3100	)	New Value	1	3100 meters	Changed Value 1? N
Old Value 2	1		New Value	2	None	Changed Value 2? Y
Old Operator 1	< New O	pt. 1 <	Changed Opt.	1? N Old Opt. 2	= New Opt	. 2 > Changed Opt. 2 Y
Old Condensed Impact	Fog and I	Reduced Visi	bility New C Impact	ondensed	Fog and Low Visi	Changed Condensed Impact?
Old Full Impact				iles (3100 m) redu he minimum use:		l background contrast making
New Full Impact				iles (3100 m) redu he minimum usea		l background contrast making
Old Source (1s	t Cavalry Divisi	on, 1992);				Changed Full Impact? N
New Source/			Tactical Decisio	n Aids: Is There a	Difference?" Dr.	R. Shirkey, Dec 1997, ARL,
Comments						
Changed Source	? Y		Are There A	ny (2) Options?	Y	Any Change to Record?
ID# 52 C	omponent Name		STINGER-COM	MON	Rule 1 # 36	Rule 2 # Delete Rule? N
Old Color 1	New Col	or 1				Changed Color? N
Parameter 1 #	26 Old Param	n. 1 ID	visibility	New Param. 1 ID	Visibilit	y Changed Param. 17 N
Parameter 2 #	Old Param	1. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	5000	)	New Value	1 4	1000 meters	Changed Value 1? Y
Old Value 2			New Value	2		Changed Value 2?
Old Operator 1	< New O	pt. 1 <	Changed Opt.	1? N Old Opt. 2	New Opt	. 2 Changed Opt. 2
Old Condensed Impact	Redu	ced Visibility	New C	ondensed	Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility < 3.1	miles (5000 r	n) reduces the op	perating capabilit	у.	
New Full Impact	Visibility < 2.5	miles (4000 r	n) reduces the ef	fective operating	capability	
		**	· •			
<b>/M</b> cContinued	and the second					Changed Full Impact? Y
Old Source (1s	t Cavalry Divisi	on, 1992);				
New Source/ Reason for Delete	FM 44-43, Page	1-3, Oct 95				
Comments						
L.						i

ID# 53 C	omponent Name	THERMAL SIGHT		Rule 1 # 21 Rule 2	2 # Delete Rule? N
Old Color 1	New Color 1	]			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID ter	mperature New	Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New	Param. 2 ID		Changed Param. 2?
Old Value 1	125	New Value 1		125 F	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1 >=	Changed Opt. 1?	Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Hot	New Conde Impact	nsed	Extreme Heat	Changed Condensed Impact?
Old Full Impact	Temperatures >= 125 F cause detect/identify targets.	thermal bending to	impact the t	hermal sight which degi	rades the ability to
New Full Impact	Temperatures >= 125 F cause detect/identify targets.	thermal bending to	impact the t	hermal sight which degi	rades the ability to
					Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);				
New Source/ Reason for Delete	FM 34-81-1, Appendix F-5, De	c 1992			
Comments					
Changed Source	? [Y]	Are There Any (2	2) Options?	N /	Any Change to Record? Y
Ū					
[					0 #
	omponent Name	THERMAL SIGHT		Rule 1 # 41 Rule	
Old Color 1	New Color 1	Nion		Visibilib	
Parameter 1 #			v Param. 1 ID	Visibility	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID	New Value 1	v Param. 2 ID	000 meters	Changed Param. 2?  Changed Value 1? N
Old Value 1	3000	]	<u> </u>	ood meters	Changed Value 1? N Changed Value 2?
Old Value 2	New Oat 4	New Value 2	M OH OH 3	Now Oak 2	Changed Value 2? Changed Opt. 2
Old Operator 1	<= New Opt. 1 <=	<u> </u>	N Old Opt. 2	Low Visibility	
Old Condensed Impact	Reduced Visibility	New Conde	ensea	LOW VISIBILITY	Changed Condensed Impact?
Old Full Impact	Visibility <= 1.8 miles (3000 r	n) makes it difficult	for the therm	al sight to identify targe	ts.
Now Eul Imma-+	Visibility <= 1.8 miles (3000 r	m) makes it difficult	for the thorn	al sight to identify targe	te
New Full Impact	VISIBILITY <= 1.8 miles (3000 i	n) makes it difficult	ior the therm	al Signit to Identity targe	is.
				-	
04.0	4. OI Division 4000)				Changed Full Impact? N
	t Cavalry Division, 1992);	Tastical Desirion Ai	day la Thara a	Difference?" Dr. D. Shir	rkey Dec 1007 ABI
New Source/ Reason for Delete	"Quantitative vs. Qualitative " WSMR, NM.	Tactical Decision Aid	us. Is There a	Difference? Dr. R. Still	rkey, Dec 1997, ARL,
Comments					
Changed Source	9? <b>Y</b>	Are There Any (	2) Options?	N	Any Change to Record? Y

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	***** * *** * **** * ***			
ID# 55 C	omponent Name	THERMAL SIGHT	Rule 1 # 42	Rule 2 # Delete Rule? N
Old Color 2	New Color 1			Changed Color? Y
Parameter 1 #	26 Old Param. 1 ID	visibility New Para	ım. 1 ID Visibili	ty Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Para	ım. 2 ID	Changed Param. 2?
Old Value 1	2000	New Value 1	2000 meters	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1? N O	Opt. 2 New Op	t. 2 Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Condensed Impact	Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility <= 1.2 miles (2000	m) makes it very difficult	or the thermal sight to id	entify targets.
New Full Impact	Visibility <= 1.2 miles (2000	m) makes it very difficult	or the thermal sight to id	entify targets.
Old Source (1st	t Cavalry Division, 1992);			Changed Full Impact? N
	"Quantitative vs. Qualitative WSMR, NM.	Tactical Decision Aids: Is	There a Difference?" Dr.	R. Shirkey, Dec 1997, ARL,
Comments				
Changed Source	? [Y]	Are There Any (2) Opt	ons? N	Any Change to Record?
ID# 56 Co	omponent Name	THERMAL SIGHT	Rule 1 # 46	Rule 2 # Delete Rule? N
Old Color 1	New Color 1			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Para	m. 1 ID Visibilit	y Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Para	m. 2 ID	Changed Param. 2?
Old Value 1	4000	New Value 1	4000 meters	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	< New Opt. 1 <	Changed Opt. 1? N Old	Opt. 2 New Opt	t. 2 Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Condensed Impact	Low Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of visibility	<= 2.5 miles (4000 m) deci	eases the target acquisit	ion range.
New Full Impact	Any occurrence of visibility	<= 2.5 miles (4000 m) deci	eases the target acquisit	ion range.
014 0 (4-4	O			Changed Full Impact? N
<u>.                                    </u>	Cavalry Division, 1992);	Tastiani Danician Alderia	Thomas Difference Of Decided	D Shipkey Dec 4007 ABI
	'Quantitative vs. Qualitative ' VSMR, NM.	i agucai Decision Aigs: Is	inere a Dinerence?" Dr. 1	K. SHIFKEY, DEC 1997, AKL,
Comments			The second section is	
L				

ID# 57 C	omponent Name	THERMAL SIGHT		Rule 1 # 124 Rule 2	# 124 Delete Rule? N
Old Color 2	New Color 2				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility Ne	w Param. 1 ID	Visibility	Changed Param. 17 N
Parameter 2 #	1 Old Param. 2 ID bl	owingsand Ne	w Param. 2 ID	Blowing Sand	Changed Param. 2? N
Old Value 1	3000	New Value 1	30	000 meters	Changed Value 1? N
Old Value 2	1	New Value 2		None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt. 2	= New Opt. 2	> Changed Opt. 2 Y
Old Condensed Impact	Blowing Sand	New Cond Impact	lensed	Low Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of blowing range.	sand and visibility <	<= 1.8 miles (30	00 m) severely decrease	s the target acquisition
New Full Impact	Any occurrence of blowing range.	sand and visibility <	<= 1.8 miles (30	000 m) severely decrease	s the target acquisition
		·			Changed Full Impact? N
Li	t Cavalry Division, 1992);				
	"Quantitative vs. Qualitative WSMR, NM.	Tactical Decision A	ids: Is There a	Difference?" Dr. R. Shirk	ey, Dec 1997, ARL,
Comments		,		79.50	
Changed Source	? <b>Y</b>	Are There Any	(2) Options?	Y	ny Change to Record? Y
JD # [ 0		THE DAME OF OUT			" [405] D.L.L. D.L.O [1]
·	omponent Name	THERMAL SIGHT		Rule 1 # 125 Rule 2	
Old Color 2	New Color 2	Nio	Daram 4 ID	Vi-ibilib.	Changed Color? N
Parameter 1 #			w Param. 1 ID w Param. 2 ID	Visibility	Changed Param. 1? N Changed Param. 2? N
Parameter 2 # Old Value 1	9 Old Param. 2 ID 3000	fog New Value 1	L	Fog 000 meters	Changed Value 1? N
Old Value 2	1	New Value 2	3	None	Changed Value 2? Y
Old Value 2 Old Operator 1	< New Opt. 1 <	Changed Opt. 1?	N Old Opt 3	= New Opt. 2	> Changed Opt. 2 Y
Old Operator 1	Fog and Reduced Visib			Low Visibility	Changed Opt. 2
Impact	Fog and Reduced Visit	Impact	lenseu	LOW VISIBILITY	Chanceu
Old Full Impact					Condensed Impact?
Old Full Impubli	Any occurrence of fog and		s (3000 m) sev	erely decreases the targe	Condensed Impact?
·	Any occurrence of fog and v	visibility <= 1.8 mile			Condensed Impact?
·		visibility <= 1.8 mile			Condensed Impact?
New Full Impact		visibility <= 1.8 mile			Condensed Impact?
New Full Impact  Old Source (1s  New Source/	Any occurrence of fog and v	visibility <= 1.8 mile	s (3000 m) sev	erely decreases the targe	Condensed Impact?  et acquisition range.  et acquisition range.  Changed Full Impact?  N
New Full Impact  Old Source (1s  New Source/ Reason for	Any occurrence of fog and very control of the contr	visibility <= 1.8 mile	s (3000 m) sev	erely decreases the targe	Condensed Impact?  et acquisition range.  et acquisition range.  Changed Full Impact?  N

[					
ID# 59 C	omponent Name	THERMA	L SIGHT	Rule 1 # 126 Ru	le 2 # 126 Delete Rule? N
Old Color 2	New Color	2			Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	17 Old Param. 2 ID	snow	New Param. 2 ID	Snow	Changed Param. 2? N
Old Value 1	3000	New \	Value 1 3	000 meters	Changed Value 1? N
Old Value 2	0	New \	Value 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed	Opt. 1? N Old Opt. 2	> New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Snow and Redu		lew Condensed npact	Low Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of s	snow and visibility	<= 1.8 miles (3000 m) se	everely decreases the	target acquisition range.
New Full Impact	Any occurrence of s	snow and visibility	<= 1.8 miles (3000 m) se	everely decreases the	target acquisition range.
Old Source (1s	t Cavalry Division, 19	992);			Changed Full Impact? N
New Source/			cision Aids: Is There a	Difference?" Dr. R. S	hirkey, Dec 1997, ARL.
Reason for Delete	WSMR, NM.				,
Comments					
Changed Source	? Y	Are Th	ere Any (2) Options?	Y	Any Change to Record? Y
•gua uua			, , ,		, ,
	omponent Name	THERMA	L SIGHT	Rule 1 # 127 Ru	le 2 # 127 Delete Rule? N
Old Color 2	New Color	2			Changed Color? N
Old Color 2 Parameter 1 #	New Color 26 Old Param. 1 ID	2 visibility	New Param. 1 ID	Visibility	Changed Color? N  Changed Param. 1? N
Old Color 2 Parameter 1 # Parameter 2 #	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID	visibility rain	New Param. 1 ID  New Param. 2 ID	Visibility Rain	Changed Color? N  Changed Param. 1? N  Changed Param. 2? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3000	visibility rain New	New Param. 1 ID  New Param. 2 ID  Value 1 30	Visibility Rain 000 meters	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID 3000	visibility rain New \	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2	Visibility Rain 000 meters None	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3000  0  New Opt. 1	visibility rain New \ New \ Changed	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2	Visibility Rain 000 meters None > New Opt. 2	Changed Color?  Changed Param. 17 N  Changed Param. 27 N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 26 Old Param. 1 ID 14 Old Param. 2 ID 3000	visibility rain New \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2	Visibility Rain 000 meters None	Changed Color?  Changed Param. 17 N  Changed Param. 27 N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R	visibility rain New New Changed educed Visibility Nr	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Faraget	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R	visibility rain New New Changed educed Visibility Nr	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Faraget	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility	Changed Color?  Changed Param. 17 N  Changed Param. 27 N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R  Any occurrence of recommenders	visibility rain New \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Finact  1.8 miles (3000 m) sev	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility verely decreases the t	Changed Color?  Changed Param. 17 N  Changed Param. 27 N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R  Any occurrence of recommenders	visibility rain New \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Finact  1.8 miles (3000 m) sev	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility verely decreases the t	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?  Arget acquisition range.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R  Any occurrence of I	visibility rain New New Changed educed Visibility Ir rain and visibility <=	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Finact  1.8 miles (3000 m) sev	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility verely decreases the t	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact?  Y  arget acquisition range.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/	New Color  26 Old Param. 1 ID  14 Old Param. 2 ID  3000  0  New Opt. 1  Precipitation and R  Any occurrence of the color o	visibility rain New \ New \ Changed educed Visibility   In rain and visibility <= rain and visibility <=	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Finact  1.8 miles (3000 m) sev	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility rerely decreases the treely decrease the treely decreases the treely decrease the treely decrea	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y  arget acquisition range.  Changed Full Impact? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	New Color  26 Old Param. 1 ID  3000  0  New Opt. 1  Precipitation and R  Any occurrence of the Cavalry Division, 19  "Quantitative vs. Quantitative vs. Quantit	visibility rain New \ New \ Changed educed Visibility   In rain and visibility <= rain and visibility <=	New Param. 1 ID  New Param. 2 ID  Value 1 30  Value 2  Opt. 1? N Old Opt. 2  ew Condensed Finpact  1.8 miles (3000 m) several	Visibility Rain 000 meters None > New Opt. 2 Rain and Low Visibility rerely decreases the treely decrease the treely decreases the treely decrease the treely decrea	Changed Color?  Changed Param. 1? N  Changed Param. 2? N  Changed Value 1? N  Changed Value 2? Y  Changed Opt. 2 N  Changed Condensed Impact? Y  arget acquisition range.  Changed Full Impact? N

ID # 61 Component Name THERMAL SIGHT Rule 1 # 128 Rule 2 # 128 Delete Rule? N
Old Color 2 New Color 2 Changed Color? N
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 N
Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2 N
Old Value 1 3000 New Value 1 3000 meters Changed Value 1? N
Old Value 2 0 New Value 2 None Changed Value 2? Y
Old Operator 1
Old Condensed Drizzle and Reduced Visibility New Condensed Drizzle and Low Visibility Changed
Impact   Drizzie and Reduced Visibility   Inch Condensed Impact   Y
Old Full Impact Any occurrence of drizzle and visibility <= 1.8 miles (3000 m) severely decreases the target acquisition range.
New Full Impact Any occurrence of drizzle and visibility <= 1.8 miles (3000 m) severely decreases the target acquisition range.
Changed Full Impact? N
Old Source (1st Cavalry Division, 1992);
New Source/ Reason for Delete  "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.
Comments
Changed Source? Y Are There Any (2) Options? Y Any Change to Record? Y
ID# 62 Component Name THERMAL SIGHT Rule 1 # 129 Rule 2 # 129 Delete Rule? N
Old Color 1 New Color 1 Changed Color? N
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N
Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? N
Old Value 1 4000 New Value 1 5000 meters Changed Value 1? Y
Old Value 2 0 New Value 2 None Changed Value 2? Y
Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 > New Opt. 2 > Changed Opt. 2 N
Old Condensed Impact Drizzle and Reduced Visibility New Condensed Impact Drizzle and Reduced Visibility Changed Condensed Impact?
Old Full Impact Any occurrence of drizzle and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.
New Full Impact Any occurrence of drizzle and visibility <= 3.1 miles (5000 m) decreases the target acquisition range.
, , , , , , , , , , , , , , , , , , , ,
Changed Full Impact? Y
Changed Full Impact? Y
Changed Full Impact? Y  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL,  WSMR, NM.
Changed Full Impact? Y  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for Delete "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL,  WSMR, NM.

ID# 63 C					
	Component Name	THERMAL SIGHT	Rı	ile 1 # 130 Rule	2 # 130 Delete Rule? N
Old Color 1	New Color 1				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility Ne	w Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	14 Old Param. 2 ID	rain Ne	w Param. 2 ID	Rain	Changed Param. 2? N
Old Value 1	4000	New Value 1	5000	meters	Changed Value 1? Y
Old Value 2	0	New Value 2	N	one	Changed Value 2? Y
Old Operator 1	New Opt. 1	Changed Opt. 1?	N Old Opt. 2	> New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Precipitation and Reduced	Visibility New Condo	ensed Rain ar	nd Reduced Visibil	Changed Condensed Impact?
Old Full Impact	Any occurrence of rain and	visibility <= 2.5 mile	s (4000 m) decrea	ses the target acqu	uisition range.
New Full Impact	Any occurrence of rain and	visibility <= 3.1 mile	s (5000 m) decrea	ses the target acqu	uisition range.
Old Source (1s	st Cavalry Division, 1992):				Changed Full Impact? Y
New Source/	"Quantitative vs. Qualitative	Tactical Decision Ai	de: le Thoro a Diff	orence?" Dr. P. Sh	irkov Doc 1997 API
	WSMR, NM.	ractical Decision Al	us. Is There a bill	erence: Dr. N. Sir	irkey, Dec 1997, ARL,
Comments					
Changed Source	e? Y	Are There Any (	2) Options?		Any Change to Record?
ID# 64 C	component Name	THERMAL SIGHT	Ru	le 1 # 131 Rule	2 # 131 Delete Rule? N
Old Color 1	New Color 1				Changed Color? N
L	26 Old Param. 1 ID	visibility Nev	w Param. 1 ID	Visibility	Changed Param. 17 N
Parameter 2 #			w Param. 2 ID		
Old Value 4	17 Old Param. 2 ID	snow Nev	v raiaiii. Z ID;	Snow	Changed Param. 2? N
Old Value 1	17 Old Param. 2 ID 4000	snow New Value 1		meters	Changed Param. 2? N Changed Value 1? N
Old Value 1 Old Value 2			4000		
	4000	New Value 1	4000 No	meters	Changed Value 1? N
Old Value 2	4000	New Value 1 New Value 2 Changed Opt. 1?	4000 No N Old Opt. 2	meters	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N
Old Value 2 Old Operator 1 Old Condensed	4000 0 < New Opt. 1 <	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde	4000  No Old Opt. 2 :: ensed Snow	meters one New Opt. 2 and Low Visibility	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y
Old Value 2 Old Operator 1 Old Condensed Impact	4000  0  New Opt. 1   Snow and Reduced Visi	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde	4000  No Old Opt. 2 :: ensed Snow	meters one New Opt. 2 and Low Visibility	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	4000  0  New Opt. 1   Snow and Reduced Visi	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil	A000  No N Old Opt. 2 : ensed Snow es (4000 m) decre	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y puisition range.
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	4000  O  New Opt. 1   Snow and Reduced Visite  Any occurrence of snow an	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil	A000  No N Old Opt. 2 : ensed Snow es (4000 m) decre	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y puisition range.
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	4000  O  New Opt. 1   Snow and Reduced Visite  Any occurrence of snow an	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil	A000  No N Old Opt. 2 : ensed Snow es (4000 m) decre	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y puisition range.
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	4000  O  New Opt. 1   Snow and Reduced Visite  Any occurrence of snow an	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil	A000  No N Old Opt. 2 : ensed Snow es (4000 m) decre	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y Juisition range.  Juisition range.
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/	4000  O  New Opt. 1   Snow and Reduced Vision  Any occurrence of snow an  Any occurrence of snow an	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil  d visibility <= 2.5 mil	4000 No N	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y Juisition range. Changed Full Impact? N
Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for	4000  O  New Opt. 1  Snow and Reduced Vision  Any occurrence of snow an  Any occurrence of snow an  t Cavalry Division, 1992);  "Quantitative vs. Qualitative	New Value 1  New Value 2  Changed Opt. 1?  bility  New Conde Impact  d visibility <= 2.5 mil  d visibility <= 2.5 mil	4000 No N	meters one New Opt. 2 rand Low Visibility ases the target acc	Changed Value 1? N Changed Value 2? Y Changed Opt. 2 N Changed Condensed Impact? Y Juisition range. Changed Full Impact? N

ID# 65 Component Name THERMAL SIGHT Rule 1 # 132 Rule 2 # 132 Delete Rule?
Old Color 1 New Color 1 Changed Color?
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N
Parameter 2 # 1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N
Old Value 1 4000 New Value 1 4000 meters Changed Value 1?
Old Value 2 1 New Value 2 None Changed Value 2? Y
Old Operator 1
Old Condensed Impact Blowing Sand New Condensed Impact Blowing Sand Changed Condensed Impact?
Old Full Impact Any occurrence of blowing sand and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.
New Full Impact Any occurrence of blowing sand and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.
Changed Full Impact?
Old Source (1st Cavalry Division, 1992);
New Source/ Reason for Delete "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.
Comments
Changed Source? Y Any Change to Record? Y
ID# 66 Component Name THERMAL SIGHT Rule 1 # 133 Rule 2 # 133 Delete Rule?
Old Color 1 New Color 1 Changed Color?
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N
Parameter 2 # 9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2 P
Old Value 1 4000 New Value 1 4000 meters Changed Value 1?
Old Value 2 1 New Value 2 None Changed Value 2?
Old Operator 1
Old Condensed   Fog and Reduced Visibility   New Condensed   Fog and Low Visibility   Changed
Impact Impact Condensed Impact?
0
Impact Impact Condensed Impact?
Impact Impact Condensed Impact?
Impact
Impact Condensed Impact Condensed Impact?  Old Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  New Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.
Impact
Impact Condensed Impact?  Old Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  New Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  Changed Full Impact?
Impact Condensed Impact?  Old Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  New Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  Changed Full Impact?  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.
Impact Condensed Impact?  Old Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  New Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  Changed Full Impact?  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for Delete "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.
Impact Condensed Impact?  Old Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  New Full Impact Any occurrence of fog and visibility <= 2.5 miles (4000 m) decreases the target acquisition range.  Changed Full Impact?  Old Source (1st Cavalry Division, 1992);  New Source/ Reason for "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.

ID# 67 C				
	omponent Name	TOW-COMMON	Rule 1 # 7 Rule 2 #	Delete Rule? N
Old Color 2	New Color 2			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID te	mperature New Param. 1	ID Minimum Temperature	Changed Param. 1? Y
Parameter 2 #	Old Param. 2 ID	New Param. 2	ID	Changed Param. 2?
Old Value 1	-25	New Value 1	- 25 F	Changed Value 1? N
Old Value 2		New Value 2		Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	Changed Opt. 1? N Old Opt	. 2 New Opt. 2	Changed Opt. 2
Old Condensed Impact	Cold	New Condensed Impact	Extreme Cold	Changed Condensed Impact?
Old Full Impact	Temperatures <= -25 F excee	ed the minimum operating rang	ge.	
New Full Impact	Temperatures <= -25 F excee	ed the minimum operating rang	ge	
Old Source (1s	t Cavalry Division, 1992);			Changed Full Impact? N
Line	TM 9-1425-472-12, para 2-75,	Jan 80		
Delete				
Comments				
Changed Source	? Y	Are There Any (2) Options?	N Any	/ Change to Record? Y
ID# 68 C	omponent Name	TOW-COMMON	Rule 1 # 9 Rule 2 #	Delete Rule? Y
Old Color 1				
Parameter 1 #	New Color			Changed Color?
i aiaiiicici i #		nperature New Param. 1	ID	Changed Color?  Changed Param. 1?
Parameter 2 #		mperature New Param. 1 New Param. 2		
<u></u>	22 Old Param. 1 ID ter			Changed Param. 1?
Parameter 2 #	22 Old Param. 1 ID ter Old Param. 2 ID	New Param. 2		Changed Param. 1? Changed Param. 2?
Parameter 2 # Old Value 1	22 Old Param. 1 ID ter Old Param. 2 ID	New Param. 2	ID	Changed Param. 1? Changed Param. 2? Changed Value 1?
Parameter 2 # Old Value 1 Old Value 2	Old Param. 1 ID ter Old Param. 2 ID -20	New Param. 2  New Value 1  New Value 2	ID	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2?
Parameter 2 # Oid Value 1 Old Value 2 Old Operator 1 Old Condensed	22 Old Param. 1 ID ter Old Param. 2 ID	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed	2 New Opt. 2	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact	Old Param. 1 ID ter Old Param. 2 ID  -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact	2 New Opt. 2	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	Old Param. 1 ID ter Old Param. 2 ID  -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact	2 New Opt. 2	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	Old Param. 1 ID ter Old Param. 2 ID  -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact	2 New Opt. 2 gine's plume therby exposing	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact?
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	Old Param. 1 ID ter Old Param. 2 ID -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p danger.  Cavalry Division, 1992);	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact  Produce an ice fog from the eng	2 New Opt. 2 gine's plume therby exposing	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact? The operator to greater
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	Old Param. 1 ID ter Old Param. 2 ID -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p danger.  Cavalry Division, 1992);	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact	2 New Opt. 2 gine's plume therby exposing	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact? The operator to greater
Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st) New Source/ Reason for	Old Param. 1 ID ter Old Param. 2 ID -20  -20  New Opt. 1  Cold  Temperatures <= -20 F may p danger.  Cavalry Division, 1992);	New Param. 2  New Value 1  New Value 2  Changed Opt. 1? Old Opt.  New Condensed Impact  Produce an ice fog from the eng	2 New Opt. 2 gine's plume therby exposing	Changed Param. 1? Changed Param. 2? Changed Value 1? Changed Value 2? Changed Opt. 2 Changed Condensed Impact? The operator to greater

ID# 69 C	omponent Name	TOW-COMMON	Rule 1 #	35 Rule 2 #	Delete Rule? N
Old Color 1	New Color 1				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility New Pa	ram. 1 ID \	isibility/	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	New Pa	ram. 2 ID		Changed Param. 2?
Old Value 1	3200	New Value 1	3750 meters		Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <	Changed Opt. 1? Y	Old Opt. 2 N	ew Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Visibili	New Condense Impact	d Low V	sibility	Changed Condensed Impact?
Old Full Impact	Visibility < 2.0 miles (3200	m) reduces the maximum	effective range.		
New Full Impact	Visibility < 2.3 miles (3750	m) reduces the effective r	ange.		
					Changed Full Impact? Y
Old Source (1s	t Cavalry Division, 1992);				
New Source/ Reason for Delete	FM 23-34, Para 2-79, Aug 9	4			
Comments					
			·		
Changed Source	9? <b>Y</b>	Are There Any (2) O	ptions? N	Any	Change to Record?
ID# 70 C	Component Name	TOW-COMMON	Rule 1 #	37 Rule 2#	Delete Rule? N
	component Name  New Color  2	TOW-COMMON	Rule 1 #	37 Rule 2#	Delete Rule? N Changed Color? N
Old Color 2				37 Rule 2 #	
	New Color 2	visibility New Pa			Changed Color? N
Old Color 2 Parameter 1 #	New Color 2 26 Old Param. 1 ID	visibility New Pa	ıram. 1 ID	/isibility	Changed Color?  Changed Param. 1? N
Old Color 2 Parameter 1 # Parameter 2 #	New Color 2 26 Old Param. 1 ID Old Param. 2 ID	visibility New Pa	ıram. 1 ID \	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000	visibility New Pa New Pa New Value 1 New Value 2	aram. 1 ID \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N	ram. 1 ID Name to 1000 meters  Did Opt. 2 Name to 1000 Meters	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  < New Opt. 1 < Reduced Visibili	visibility New Pa New Value 1 New Value 2 Changed Opt. 1? N (	aram. 1 ID Nation 1000 meters  Old Opt. 2 Nation 1000	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  < New Opt. 1 < Reduced Visibili	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  New Condense	aram. 1 ID Nation 1000 meters  Old Opt. 2 Nation 1000	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000)	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces the	aram. 1 ID Normal Norma	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  < New Opt. 1 < Reduced Visibili	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces the	aram. 1 ID Normal Norma	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000)  Visibility < 0.6 miles (1000)	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces the	aram. 1 ID Normal Norma	/isibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000 control the missile.	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces the	aram. 1 ID Normal Norma	/isibility  selew Opt. 2  v Visibility  the TOW to arm in the operator to	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000)  Visibility < 0.6 miles (1000)  Control the missile.	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces th	aram. 1 ID Normal Norma	/isibility  selew Opt. 2  v Visibility  the TOW to arm in the operator to	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000 control the missile.	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces th	aram. 1 ID Normal Norma	/isibility  selew Opt. 2  v Visibility  the TOW to arm in the operator to	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000)  Visibility < 0.6 miles (1000)  Control the missile.	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces th	aram. 1 ID Normal Norma	/isibility  selew Opt. 2  v Visibility  the TOW to arm in the operator to	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for Delete	New Color 2 26 Old Param. 1 ID Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility < 0.6 mile (1000 control the missile.	visibility  New Pa  New Value 1  New Value 2  Changed Opt. 1? N  ty  New Condense Impact  m) significantly reduces th	aram. 1 ID Normal Norma	/isibility  selew Opt. 2  v Visibility  the TOW to arm in the operator to	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Tself.

ID# 71 C	omponent Name	TOW-COMM	ON	Rule 1 # 63 Ru	lle 2 # Delete Rule? N
Old Color 2	New Color	2			Changed Color? N
Parameter 1 #	21 Old Param. 1 ID	surfacewindspeed	New Param. 1 ID	Surface Wind Spe	eed Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	30	New Value	1	35 kts.	Changed Value 1? Y
Old Value 2		New Value	2		Changed Value 2?
Old Operator 1	>= New Opt. 1	> Changed Opt.	1? Y Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Surface Wir	nd New C	ondensed	Strong Surface Wind	Changed Condensed Impact?
Old Full Impact	When surface winds ac	ross the direction of	flight are >= 30 k	ts, tracking the target	is very difficult.
New Full Impact	When the surface wind	s are > 35 kts tracking	g the target is ver	y difficult because of	launch tube vibration.
Old Source 14a4	Caralar Division 4002)				Changed Full Impact? Y
ــــنا	Cavalry Division, 1992)				
Reason for Delete	FM 23-34, Para 2-79, Auզ	g 94			
Comments					
Changed Source	? Y	Are There A	ny (2) Options?	N	Any Change to Record? Y
ID# <b>72</b> Co	omponent Name	TOW-COMMC	DN .	Rule 1 # 64 Rul	le 2 # Delete Rule? N
Old Color 1		1		J	Changed Color? N
Parameter 1 #	Old Param. 1 ID	surfacewindspeed	New Param. 1 ID	Surface Wind Spe	
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	15	New Value	1	25 kts.	Changed Value 1? Y
Old Value 2		New Value	2		Changed Value 2?
Old Operator 1	> New Opt. 1	> Changed Opt. 1	? N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Surface Win	New Co	ondensed	Surface Wind	Changed Condensed Impact?
Old Full Impact	When surface winds ac	ross the direction of t	light are >= 15 kt	s, tracking the target i	
	When surface winds actube vibration.	ross the direction of t	light are > 25 kts	, tracking the target is	difficult because of launch
					Changed Full Impact? Y
	Cavalry Division, 1992);				
New Source/ Reason for Delete	M 23-34, Para 2-79, Aug	j 94 			
Comments					
Changed Source?	Y	Are There A	ny (2) Options?	N	Any Change to Record? Y

ID# 73 C	omponent Name	TOV	/2-COMMON		Rule 1#	7 R	ule 2 #	Delete Rule?	N
Old Color 2	New Color	2			<del></del>			Changed Color?	N
Parameter 1 #	22 Old Param. 1 ID	tempera	ture Nev	v Param. 1 ID	Te	emperature		Changed Param. 1	? N
Parameter 2 #	Old Param. 2 ID		Nev	v Param. 2 ID				Changed Param. 2	7
Old Value 1	-25	1	lew Value 1		- 25 F			Changed Value 1?	Y
Old Value 2			lew Value 2				=	Changed Value 2?	$\Box$
Old Operator 1	<= New Opt. 1	<= Chan	ged Opt. 1?	N Old Opt. 2	!	New Opt. 2	Γ	Changed Opt. 2	$\overline{\Box}$
Old Condensed Impact	Cold		New Conde	ensed	Extre	me Cold		Changed Condensed Impact?	Y
Old Full Impact	Temperatures <= -25	F exceed the	minimum ope	rating range	•				
New Full Impact	Temperatures <= -25	F exceed the	minimum ope	rating range	•				
Old Source (1st	Cavalry Division, 19	22).			===			Changed Full Impact?	N
	TM 9-1425-472-12, Par		<u> </u>						
Reason for Delete	1111 3-1423-472-12, 1 di	a 2-75, ban 66							
Comments									
Changed Source	? Y	Α	re There Any (	2) Options?	N	****	Anv	Change to Record?	Y
			,	, -,				<b>.</b>	
(					7				<u></u>
	omponent Name	TOV	V2-COMMON		Rule 1 #	9 R	ıle 2 #	Delete Rule?	=
Old Color 1	New Color			D 4 15				Changed Color?	N
	Old Param. 1 ID	tempera		v Param. 1 ID				Changed Param. 1	
Parameter 2 #	Old Param. 2 ID			v Param. 2 IC	·		<del></del>	Changed Param. 2	
Old Value 1	-20		lew Value 1				_	Changed Value 1?	
Old Value 2	N. O. 4		lew Value 2			N		Changed Value 2?	
Old Operator 1	<= New Opt. 1		ged Opt. 1?	Old Opt. 2	?	New Opt. 2		Changed Opt. 2	
Old Condensed Impact	Cold		New Conde Impact	ensed				Changed Condensed Impact?	
Old Full Impact	Temperatures <= -20 danger.	F may produc	e an ice fog f	rom the engi	ine's plume	e therby exp	oosing	the operator to grea	ter
New Full Impact						,			
-									
•	L		<del>- •</del>	·				Changed Full Impact?	$\overline{\Box}$
Old Source (1s	t Cavalry Division, 19	92);						onangoa i an impaoi.	
New Source/ Reason for Delete	Delete Rule: Redunda	int with Rule I	D# 73 and no	reference fo	und to - 20	F.			
Comments									
Changed Source	? Y	Α	re There Any (	2) Options?	N		Any	Change to Record?	Y

ID# 75 C	Component Name	TOW2-COMMON		Rule 1 # 35 Rule	2 # Delete Rule? N
Old Color 1	New Color 1	7		<u> </u>	Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility Ne	ew Param. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	Ne	ew Param. 2 ID		Changed Param. 2?
Old Value 1	3200	New Value 1	37	750 meters	Changed Value 1? Y
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <	Changed Opt. 1?	Y Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Visibility	New Cond Impact	lensed	Low Visibility	Changed Condensed Impact?
Old Full Impact	Visibility < 2.0 miles (3200 m	) reduces the maxi	mum effective r	ange.	
New Full Impact	Visibility < 2.3 miles (3750 m	) reduces the maxi	mum effective r	ange.	
Old Sauras (4a	4 Cavalar Divinian 4002h				Changed Full Impact? Y
	t Cavalry Division, 1992);				
New Source/ Reason for Delete	FM 23-34, Para 2-79, Aug 94				
Comments		A CONTRACTOR OF THE CONTRACTOR	AT 2011		
Changed Source	? [Y]	Are There Any	(2) Options?	N	Any Change to Record? Y
		,	()		, any change to record.
ID# 76 C	omponent Name	TOW2-COMMON		Rule 1 # 37 Rule	2# Delete Rule? N
ID # 76 C Old Color 2	New Color 1	TOW2-COMMON		Rule 1 # 37 Rule	2 # Delete Rule? N Changed Color? Y
Old Color 2 Parameter 1 #	New Color 1  26 Old Param. 1 ID	visibility Ne	w Param. 1 ID	Rule 1 # 37 Rule  Visibility	
Old Color 2 Parameter 1 # Parameter 2 #	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID	visibility Ne	w Param. 1 ID	Visibility	Changed Color? Y Changed Param. 1? N Changed Param. 2?
Old Color 2 Parameter 1 #	New Color 1  26 Old Param. 1 ID	visibility Ne	w Param. 1 ID		Changed Color? Y  Changed Param. 1? N
Old Color 2 Parameter 1 # Parameter 2 #	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID	visibility Ne	w Param. 1 ID w Param. 2 ID 10	Visibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID	visibility Ne Ne New Value 1 New Value 2	w Param. 1 ID w Param. 2 ID 10 N Old Opt. 2	Visibility 00 meters  New Opt. 2	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1000	visibility Ne Ne New Value 1 New Value 2	w Param. 1 ID w Param. 2 ID 10 N Old Opt. 2	Visibility 00 meters	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1000  New Opt. 1 <	visibility Ne New Value 1 New Value 2 Changed Opt. 1? New Cond	w Param. 1 ID w Param. 2 ID 10 N Old Opt. 2	Visibility  00 meters  New Opt. 2  Very Low Visibility	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1000  < New Opt. 1 < Reduced Visibility  Visibility < 0.6 mile (1000 m)	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  TY
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1000  New Opt. 1 < Reduced Visibility	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  TY
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1  1000  New Opt. 1 < Reduced Visibility  Visibility < 0.6 mile (1000 m)  Visibility < 0.6 miles (1000m) control the missile.	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  TY
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1  1000  < New Opt. 1 < Reduced Visibility  Visibility < 0.6 mile (1000 m)  Visibility < 0.6 miles (1000m)  control the missile.	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Ty  arm itself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1  1000  New Opt. 1 < Reduced Visibility  Visibility < 0.6 mile (1000 m)  Visibility < 0.6 miles (1000m) control the missile.	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Ty  arm itself.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1st) New Source/ Reason for	New Color 1  26 Old Param. 1 ID 1  Old Param. 2 ID 1  1000  < New Opt. 1 < Reduced Visibility  Visibility < 0.6 mile (1000 m)  Visibility < 0.6 miles (1000m)  control the missile.	visibility  New Value 1  New Value 2  Changed Opt. 1?  New Cond Impact  significantly reduce	w Param. 1 ID  w Param. 2 ID  10  N Old Opt. 2  ensed  es the time requ	Visibility  00 meters  New Opt. 2  Very Low Visibility  sired for the TOW2 to a	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? N  Changed Value 2?  Changed Opt. 2  Changed Condensed Impact?  Ty  arm itself.

ID# 77 C	omponent Name	TOW	2-COMMON		Rule 1 # 63 Rule	2 # Delete Rule? N
Old Color 2	New Color	2				Changed Color? N
Parameter 1 #	21 Old Param. 1 ID	surfacewind	speed Ne	w Param. 1 ID	Surface Wind Spee	d Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		Ne	w Param. 2 ID		Changed Param. 2?
Old Value 1	30	Ne	ew Value 1		35 kts.	Changed Value 1? Y
Old Value 2		Ne	ew Value 2			Changed Value 2?
Old Operator 1	>= New Opt. 1	> Chang	ed Opt. 1? [	Y Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Surface W	/ind	New Cond Impact	ensed	Strong Surface Wind	Changed Condensed Impact?
Old Full Impact	When surface winds a	across the dire	ction of flig	ht are >= 30 ki	s, tracking the target is	very difficult.
New Full Impact	When surface winds a	are > 35 kts tra	cking the ta	rget is very di	fficult due to launch tub	e vibration.
						pro-
0110						Changed Full Impact? Y
ــــــــــــــــــــــــــــــــــــــ	t Cavalry Division, 199					
New Source/ Reason for Delete	FM 23-34, Para 2-79, A	ug 94				
Comments						
ļ						
Changed Source	? Y	Are	There Any	(2) Options?	N	Any Change to Record?
ID# 78 C	emperant Nama	TOW	2-COMMON		Rule 1 # 64 Rule	2 # Delete Rule? N
Old Color 1	omponent Name New Color	1	2-0011111014		Itale 1# 04 Itale	Changed Color? N
<u> </u>	21 Old Param. 1 ID	surfacewind	eneed Ne	w Param. 1 ID	Surface Wind Spee	
Parameter 2 #	Old Param. 2 ID	Surfacewillu		w Param. 1 ID w Param. 2 ID		Changed Param. 2?
Old Value 1	15	N/	ew Value 1	W Falain. 2 ID	25 kts.	Changed Value 1? Y
Old Value 2	19		ew Value 1		23 Kis.	Changed Value 2?
L	Now Opt 4			N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Operator 1	> New Opt. 1		٦ '			Changed Opt. 2
Old Condensed Impact	Surface W	vina	New Cond Impact	iensea	Surface Wind	Condensed Impact?
Old Full Impact	When surface winds	across the dire	ection of flig	ht are >= 15 k	ts, tracking the target is	difficult.
New Full Impact	When the surface wir	nd speed is > 2	5 kts trackir	ng the target is	s difficult because of la	inch tube vibration.
						Changed Full Impact?
L	t Cavalry Division, 199					
New Source/ Reason for Delete	FM 23-34, Para 2-79, A	Aug 94				
Comments						
Changed Source	e? Y	Ar	e There Any	(2) Options?	N	Any Change to Record?

ID# 79 C	omponent Name	TV/DIRECT VIEW	/ SIGHT	Rule 1 # 9 Ru	lle 2 # Delete Rule? N
Old Color 1	New Color	1			Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	-20	New Value	e 1	- 20 F	Changed Value 1? N
Old Value 2		New Value	2		Changed Value 2?
Old Operator 1	<= New Opt. 1	<= Changed Opt.	1? N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Cold	New C	Condensed t	Extreme Cold	Changed Condensed Impact?
Old Full Impact	Temperatures <= -20	F may cause internal f	ogging and reduc	e imaging capability/e	
New Full Impact	Temperatures <= -20	F may cause internal f	ogging and reduc	e imaging capability/e	ffectiveness.
					Changed Full Impact? N
Old Source (1st	Cavairy Division, 199	2);			Onlanged i dil impact: [14]
	FM 34-81-1, Appendix				
Reason for Delete	•				
Comments				ATTICLE MANAGEMENT OF THE PROPERTY OF THE PROP	
L				<u></u>	
Changed Source	? <u>Y</u>	Are There A	Any (2) Options?	N	Any Change to Record?
ID# 80 C	omponent Name	TV/DIRECT VIEW	SIGHT	Rule 1 # 36 Ru	le 2 # Delete Rule? N
Old Color 1	New Color	1		٠	Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param. 1 ID	Visibility	Changed Param. 17 N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	5000	New Value	. 1 5	5000 meters	Changed Value 1? N
Old Value 2		New Value	2		Changed Value 2?
Old Operator 1	< New Opt. 1	< Changed Opt.	1? N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Reduced Vis	ibility New C	ondensed t	Reduced Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of vis acquisition difficult.	ibility < 3.1 miles (500	0 m) reduces the	target and background	contrast making target
New Full Impact	Any occurrence of vis acquisition difficult.	ibility < 3.1 miles (500	0 m) reduces the	target and background	d contrast making target
	·				Changed Full Impact? N
Old Source (1st	Cavalry Division, 199	2);			Shangsa i an impaot:
	'Quantitative vs. Quali VSMR, NM.	tative Tactical Decisio	n Aids: Is There a	Difference?" Dr. R. SI	nirkey, Dec 1997, ARL,
Comments					
L	Y	A Th A	Any (2) Options?	N	Any Change to Record? Y

ID# 81 C	omponent Name TV/DIRECT VIEW SIGHT	Rule 1 # 109 Rule 2	# 109 Delete Rule? N
Old Color 1	New Color 1		Changed Color? N
Parameter 1 #	26 Old Param. 1 ID visibility New Para	m. 1 ID Visibility	Changed Param. 1? N
Parameter 2 #	7 Old Param. 2 ID drizzle New Para	m. 2 ID Drizzle	Changed Param. 27 N
Old Value 1	5000 New Value 1	5000 meters	Changed Value 1? N
Old Value 2	0 New Value 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 < Changed Opt. 1? N Ok	I Opt. 2 > New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Drizzle and Reduced Visibility New Condensed Impact	Drizzle and Reduced Visibilit	Changed Condensed Impact?
Old Full Impact	Drizzle > light intensity and visibility < 3.1 miles (5000 target acquisition difficult.	m) reduces the target and backg	ground contrast making
New Full Impact	Any occurrence of drizzle and visibility < 3.1 miles (50 making target acquisition difficult.	00 m) reduces the target and bad	ckground contrast
			Changed Full Impact?
	t Cavalry Division, 1992);		
New Source/ Reason for Delete	"Quantitative vs. Qualitative Tactical Decision Aids: Is WSMR, NM.	There a Difference?" Dr. R. Shirk	(ey, Dec 1997, ARL,
Comments			
Changed Source	? Y Are There Any (2) Opt	ions? Y A	Any Change to Record? Y
ID# 82 C	omponent Name TV/DIRECT VIEW SIGHT	Rule 1 # 110 Rule 2	2 # 110 Delete Rule? N
Old Color 1	New Color 1		Changed Color? N
Parameter 1 #	26 Old Param. 1 ID visibility New Para	m. 1 ID Visibility	Changed Param. 17 N
Parameter 2 #	14 Old Param. 2 ID rain New Para	ım. 2 ID Rain	Changed Param. 2? N
Old Value 1	5000 New Value 1	5000 meters	Changed Value 1? N
Old Value 2	0 New Value 2	None	Changed Value 2? Y
Old Operator 1	< New Opt. 1 < Changed Opt. 1? N Ok	d Opt. 2 > New Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Precipitation and Reduced Visibility New Condensed Impact	Rain and Reduced Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of rain and visibility < 3.1 miles (5000 target acquisition difficult.	m) reduces the target and backs	ground contrast making
New Full Impact	Any occurrence of rain and visibility < 3.1 miles (5000 target acquisition difficult.	m) reduces the target and back	ground contrast making
			Changed Full Impact? N
Old Source (1s	t Cavalry Division, 1992);		
New Source/ Reason for Delete	"Quantitative vs. Qualitative Tactical Decision Aids: Is WSMR, NM.	There a Difference?" Dr. R. Shir	key, Dec 1997, ARL,
Comments			
Changed Source	? Y Are There Any (2) Op	tions? Y	Any Change to Record?

ID# 83 C	omponent Name	TV/DIRECT	VIEW SIGHT	Rule 1	# 111 F	Rule 2 #	111 Delete Ru	le? N
Old Color 1	New Color	1				С	hanged Color?	N
Parameter 1 #	26 Old Param. 1 IE	visibility	New Pa	ram. 1 ID	Visibility		Changed Param	ı. 1? N
Parameter 2 #	17 Old Param. 2 ID	snow	New Pa	ram. 2 ID	Snow		Changed Param	ı. 2? N
Old Value 1	5000	New	Value 1	5000 met	ters		Changed Value	1? N
Old Value 2	0	New	Value 2	None			Changed Value	2? Y
Old Operator 1	< New Opt. 1	< Changed	Opt. 1? N	Old Opt. 2 >	New Opt. 2	2 >	Changed Opt	. 2 N
Old Condensed Impact	Snow and Redu	· .	lew Condense mpact	d Snow and I	Reduced Vis		Changed Condensed Impa	ct? N
Old Full Impact	Any occurrence of target acquisition d		< 3.1 miles (50	000 m) reduces th	e target and	backgro	und contrast ma	aking
New Full Impact	Any occurrence of a target acquisition d		< 3.1 miles (50	000 m) reduces th	e target and	l backgro	und contrast ma	aking
Old Source (1s	t Cavalry Division, 1	992);				Ch	anged Full Impa	ct? N
	"Quantitative vs. Qu WSMR, NM.	alitative Tactical De	cision Aids: I	s There a Differer	nce?" Dr. R.	Shirkey,	Dec 1997, ARL,	
Comments								
Changed Source	? Y	Are Th	nere Any (2) O	otions? Y		Any C	hange to Record	? <b>Y</b>
1D.# 04 0		T//DIDECT	UEW CIOUT	But. 4	# [440] F		440   D. I. L. D.	- O N
	omponent Name	TV/DIRECT \	/IEW SIGHT	Rule 1	# 112 F	L	112 Delete Ru	le? N
	New Color  Old Param, 1 ID	<del></del>	Now Do	am, 1 ID	Visibility		hanged Color? Changed Param	=
Parameter 1 # Parameter 2 #	26 Old Param. 1 ID  1 Old Param. 2 ID				Blowing San	اـــــــــــــــــــــــــــــــــــــ	Changed Param	
Old Value 1	5000		Value 1	5000 met			•	
Old Value 2	1		Value 1	None			Changed Value Changed Value	닏
Old Value 2 Old Operator 1	New Opt. 1	< Changed		Id Opt. 2 =	New Opt. 2	>	Changed Opt	
Old Condensed	Blowing Sand a	nd Reduced N	lew Condense	Blowing Sa	nd and Red	uood C		
Impact Old Full Impact	Visibi Any occurrence of b		npact isibility < 3.1 ı		isibility duces the or		Condensed Impact	xt? 🔼
New Full Impact	Any occurrence of t	olowing sand and vi	sibility < 3.1 ı	niles (5000 m) red	duces the op	perational	distance.	
Old Source (1st	Cavalry Division, 19	192):				Ch	anged Full Impac	ct? N
New Source/	'Quantitative vs. Qua		cision Aids: I	There a Differer	ice?" Dr. R.	Shirkey, I	Dec 1997, ARL,	
Comments								
Changed Source	? [Y]	Are Th	ere Any (2) O	otions? Y		Any C	hange to Record	? Y

ID# 85 C	
.5 " 0	omponent Name TV/DIRECT VIEW SIGHT Rule 1 # 113 Rule 2 # 113 Delete Rule? N
Old Color 1	New Color 1 Changed Color? N
Parameter 1 #	26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N
Parameter 2 #	9 Old Param. 2 ID fog New Param. 2 ID Fog Changed Param. 2? N
Old Value 1	5000 New Value 1 5000 meters Changed Value 1? N
Old Value 2	1 New Value 2 None Changed Value 2? Y
Old Operator 1	New Opt. 1  Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 Y
Old Condensed Impact	Fog and Reduced Visibility Impact  New Condensed Impact  Fog and Reduced Visibility Changed Condensed Impact?
Old Full Impact	Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the target and background contrast making target acquisition difficult.
New Full Impact	Any occurrence of fog and visibility < 3.1 miles (5000 m) reduces the target and background contrast making target acquisition difficult.
Old Source (1s	t Cavalry Division, 1992);
New Source/ Reason for Delete	"Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.
Comments	
Changed Source	? Y Are There Any (2) Options? Y Any Change to Record? Y
ID# 86 C	component Name TV/DIRECT VIEW SIGHT Rule 1 # 118 Rule 2 # 118 Delete Rule? N
<u> </u>	component Name TV/DIRECT VIEW SIGHT Rule 1 # 118 Rule 2 # 118 Delete Rule? N  New Color 2 Changed Color? N
Old Color 2	
<u> </u>	New Color 2 Changed Color? N
Old Color 2 Parameter 1 #	New Color 2 Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N
Old Color 2 Parameter 1 # Parameter 2 #	New Color 2 Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1	New Color 2 Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color 2  Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Playing Sand and Reduced New Condensed Playing Sand and Lew Visibility Changed
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color 2 Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced New Condensed Blowing Sand and Low Visibility Changed
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2  Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced Visibility New Condensed Impact  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color 2  Changed Color? N  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced Visibility New Condensed Impact  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 2  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced Visibility New Condensed Impact  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color 2  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced Visibility New Condensed Impact Blowing Sand and Low Visibility Changed Condensed Impact? Y  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Changed Full Impact? N  Changed Full Impact? N
Old Color 2 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color 2  26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? N  1 Old Param. 2 ID blowingsand New Param. 2 ID Blowing Sand Changed Param. 2? N  3100 New Value 1 3100 meters Changed Value 1? N  1 New Value 2 None Changed Value 2? Y  < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 = New Opt. 2 > Changed Opt. 2 N  Blowing Sand and Reduced New Condensed Impact Blowing Sand and Low Visibility Changed Condensed Impact? Y  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Any occurrence of blowing sand and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Changed Full Impact? N  Changed Full Impact? N

ID# 87 C	omponent Name	TV/DIRECT \	VIEW SIGHT	Rule 1#	119 Rule	2 # 119 Delete Rule? N
Old Color 2	New Color	2				Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param	ı. 1 ID	Visibility	Changed Param. 1? N
Parameter 2 #	9 Old Param. 2 ID	fog	New Param	ı. 2 ID	Fog	Changed Param. 2? N
Old Value 1	3100	New '	Value 1	3100 meter	S	Changed Value 1? N
Old Value 2	1	New '	Value 2	None		Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed	Opt. 1? N Old 0	Opt. 2 = N	New Opt. 2	> Changed Opt. 2 Y
Old Condensed Impact	Fog and Reduc		lew Condensed npact	Fog and L	ow Visibility	Changed Condensed Impact?
Old Full Impact	Any occurrence of fo			) significantly re	duces the tar	get and background
New Full Impact	Any occurrence of fo			) significantly re	duces the tar	get and background
Old Source (1s	t Cavalry Division, 19	02).				Changed Full Impact? N
	"Quantitative vs. Qua		sision Aide: le Ti	oro a Difforance	2" Dr D Shi	rkov Doc 1997 API
New Source/ Reason for Delete	WSMR, NM.	illative factical De	CISION AIUS. IS TI	iele a Dillelelice	er Di. K. Sili	rkey, Dec 1997, ARL,
Comments						
Changed Source	? Y	Are Th	nere Any (2) Option	ns? Y		Any Change to Record? Y
ID# 88 C	omponent Name	TV/DIRECT \	/IEW SIGHT	Rule 1 #	120 Rule	2 # 120 Delete Rule? N
Old Color 2	New Color	2	VIEW OIGHT	Traic 1 #	120 Itale	Changed Color? N
Parameter 1 #	26 Old Param. 1 ID	visibility	New Param	1 ID 1	Visibility	Changed Param. 17 N
Parameter 2 #	17 Old Param. 2 ID	snow	New Param		Snow	Changed Param. 27 N
Old Value 1	3100		Value 1	3100 meter	<u> </u>	Changed Value 1? N
Oid Value 2	1		Value 2	None		Changed Value 2? Y
Old Operator 1	< New Opt. 1	< Changed		Opt. 2 > N	lew Opt. 2	> Changed Opt. 2 N
Old Condensed Impact	Snow and Reduc	ced Visibility N	lew Condensed		ow Visibility	Changed Condensed Impact?
Old Full Impact	Snow > light intensi			significantly red	duces the ope	
•		•				
New Full Impact	Any occurrence of s	now and visibility	< 1.9 miles (3100	m) significantly	reduces the	operational distance.
			- CONTRACTOR TO THE CONTRACTOR			Changed Full Impact? Y
Old Source (1s	t Cavalry Division, 19	92);				
New Source/ Reason for Delete	"Quantitative vs. Qua WSMR, NM.	litative Tactical De	cision Aids: Is Th	nere a Difference	9?" Dr. R. Shi	rkey, Dec 1997, ARL,
Comments					<del></del>	
Changed Source	? [Y]	Are Th	ere Any (2) Option	ns? Y		Any Change to Record? Y

ID # 89 Component Name TV/DIRECT VIEW SIGHT Rule 1 # 121 Rule 2 # 121 Delete Rule? I	
	N
Old Color 2 New Color 2 Changed Color?	N
Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 17 I	N
Parameter 2 # 14 Old Param. 2 ID rain New Param. 2 ID Rain Changed Param. 2? I	N
Old Value 1 3100 New Value 1 3100 meters Changed Value 1?	N
Old Value 2 None Changed Value 2?	Y
Old Operator 1	N
Old Condensed Impact Precipitation and Reduced Visibility New Condensed Impact Rain and Low Visibility Changed Condensed Impact?	Y
Old Full Impact Rain > light intensity and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.	
New Full Impact Ann occurrence of fain and visibility < 1.9 miles (3100 m) significantly reduces the operational distance	
	Υ
Old Source (1st Cavalry Division, 1992);	
New Source/ Reason for Delete "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.	
Comments	=
Changed Source? Y Are There Any (2) Options? Y Any Change to Record?	Υ
	—
ID # 00 Company Name TV/DIRECT VIEW SIGHT Pulls 1 # 122 Pulls 2 # 122 Pulls 2	<u>.                                    </u>
	N N
Old Color 2 New Color 2 Changed Color?	N
Old Color 2 New Color 2 Changed Color? [Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?	N m
Old Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? II	N m
Old Color 2 New Color 2 Changed Color? [Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? Old Value 1 3100 New Value 1 3100 meters Changed Value 1?	N m N
Old Color 2 New Color 2 Changed Color? I Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? r Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? I Old Value 1 3100 New Value 1 3100 meters Changed Value 1? I Old Value 2 1 New Value 2 None Changed Value 2?	M M N Y
Old Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? Old Value 1 3100 New Value 1 3100 meters Changed Value 1? Old Value 2 1 New Value 2 None Changed Value 2? Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2	N m N
Old Color 2 New Color 2 Changed Color? [Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? IT Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? IT Old Value 1 3100 New Value 1 3100 meters Changed Value 1? IT Old Value 2 1 New Opt. 1 Changed Opt. 1? Normal Old Operator 1 New Opt. 1 Changed Opt. 2 IT Old Condensed Drizzle and Reduced Visibility New Condensed Drizzle and Low Visibility Changed	M M N Y
Old Color 2 New Color 2 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? r  Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? r  Old Value 1 3100 New Value 1 3100 meters Changed Value 1? r  Old Value 2 1 New Value 2 None Changed Value 2? r  Old Operator 1	M M N Y
Old Color 2 New Color 2 New Color 2 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? r  Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? r  Old Value 1 3100 New Value 1 3100 meters Changed Value 1? r  Old Value 2 1 New Opt. 1 New Value 2 None Changed Value 2? r  Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2 r  Old Condensed Impact Drizzle and Reduced Visibility New Condensed Impact Condensed Impact  Old Full Impact Drizzle > light intensity and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.	M M N Y
Old Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? Old Value 1 3100 New Value 1 3100 meters Changed Value 1? Old Value 2 1 New Value 2 None Changed Value 2? Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 > New Opt. 2 > Changed Opt. 2 Old Condensed Drizzle and Reduced Visibility New Condensed Impact Condensed Impact	M M N Y
Old Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2 Parameter 2 # 7 Old Param. 2 ID New Value 1 3100 meters Changed Value 1 Parameter 2 # 1 New Value 2 None Changed Value 2 Parameter 2 # 1 New Value 2 None Changed Value 2 Parameter 2 # 1 New Opt. 1 Parameter 2 # 7 Old Operator 1 Parameter 2 # 7 Old Operator 1 Parameter 2 # 7 Old Operator 2 Parameter 2 # 7 Old Operator 3 Parameter 3 P	N N N Y N Y
Old Color 2 New Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2 Parameter 2 # 7 Old Param. 2 ID New Value 1 3100 meters Changed Value 1 Parameter 2 # 7 Old Value 1 New Value 1 New Value 2 None Changed Value 2 Parameter 2 # 7 Old Value 2 P	M M N Y
Old Color 2 New Color 2 New Color 2 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1?  Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2?  Old Value 1 3100 New Value 1 3100 meters Changed Value 1? I  Old Value 2 1 New Opt. 1 New Value 2 None Changed Value 2?  Old Operator 1 New Opt. 1 Changed Opt. 1? N Old Opt. 2 New Opt. 2 Changed Opt. 2 I  Old Condensed Impact Drizzle and Reduced Visibility New Condensed Impact Condensed Impact  Old Full Impact Drizzle > light intensity and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Changed Full Impact?  Old Source (1st Cavalry Division, 1992);	N N N Y N Y
Old Color 2 New Color 2 New Color 2 Changed Color? Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1 Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2 Parameter 2 # 7 Old Param. 2 ID New Value 1 3100 meters Changed Value 1 Parameter 2 # 7 Old Value 1 New Value 1 New Value 2 None Changed Value 2 Parameter 2 # 7 Old Value 2 P	N N N Y N Y
Old Color 2 New Color 2 New Color 2 Changed Color?  Parameter 1 # 26 Old Param. 1 ID visibility New Param. 1 ID Visibility Changed Param. 1? Parameter 2 # 7 Old Param. 2 ID drizzle New Param. 2 ID Drizzle Changed Param. 2? Old Value 1 3100 New Value 1 3100 meters Changed Value 1? Old Value 2 1 New Value 2 None Changed Value 2? Old Operator 1 < New Opt. 1 < Changed Opt. 1? N Old Opt. 2 > New Opt. 2 > Changed Opt. 2 Old Condensed Impact Old Full Impact Drizzle > light intensity and visibility < 1.9 miles (3100 m) significantly reduces the operational distance.  Changed Full Impact? Old Source (1st Cavalry Division, 1992);  New Source/ Reason for "Quantitative vs. Qualitative Tactical Decision Aids: Is There a Difference?" Dr. R. Shirkey, Dec 1997, ARL, WSMR, NM.	N N N Y N Y

ID# 91 Co	omponent Name	VT FUZE		Rule 1 # 9 Rule	2 # Delete Rule? N
Old Color 2	New Color 2				Changed Color? N
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	1	New Param. 2 ID		Changed Param. 2?
Old Value 1	-20	New Value 1		- 20 F	Changed Value 1? N
Old Value 2		New Value 2	?		Changed Value 2?
Old Operator 1	<= New Opt. 1 <	Changed Opt. 1?	Y Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Cold	New Co	ndensed	Extreme Cold	Changed Condensed Impact?
Old Full Impact	Temperatures < -20 F exc	eed the operating lin	nits and signific	antly increases unrelia	bility.
New Full Impact	Temperatures < -20 F exc	eed the operating lin	nits and signific	antly increases unrelia	bility.
Old Source (1st	Cavalry Division, 1992);				Changed Full Impact? N
	FM 31-70, Appendix G, Pa	ngo 52 Apr 1968			
Reason for Delete	-M 31-70, Appendix G, Fa	ge 3a, Apr 1900			
Comments					
Changed Source?	? Y	Are There An	y (2) Options?	N	Any Change to Record? Y
ID# 92 Co	omponent Name	VT FUZE	**********	Rule 1 # 11 Rule	2 # Delete Rule? N
Old Color 1	New Color 1			J (	Changed Color?
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperature	Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID	1	New Param. 2 ID		Changed Param. 2?
Old Value 1	0	New Value 1		0 F	Changed Value 1? N
Old Value 2		New Value 2			Changed Value 2?
Old Operator 1	<= New Opt. 1 <=	= Changed Opt. 1?	N Old Opt. 2	New Opt. 2	Changed Opt. 2
Old Condensed Impact	Cold	New Cor Impact	ndensed	Very Cold	Changed Condensed Impact?
Old Full Impact	Temperatures <= 0 F inci	ease the occurrence	of malfunctions	of variable time fuzes.	
New Full Impact	Temperatures <= 0 F inci	ease the occurrence	of malfunctions	of variable time fuzes.	
l					Changed Full Impact? N
Old Source (1st					
Ľ	Cavalry Division, 1992);				
Lī	Cavalry Division, 1992); mplied by FM 31-70, App	endix G, Page 5a, Ap	r 1968		
New Source/ Reason for		endix G, Page 5a, Ap	r 1968		

ID# 93 C	omponent Name	VT FUZE		Rule 1 # 17	Rule 2 # Delete Rule? N
Old Color 2	New Color	1			Changed Color?
Parameter 1 #	22 Old Param. 1 ID	temperature	New Param. 1 ID	Temperatu	re Changed Param. 1? N
Parameter 2 #	Old Param. 2 ID		New Param. 2 ID		Changed Param. 2?
Old Value 1	120	New Value	1	125 F	Changed Value 1? Y
Old Value 2		New Value	2		Changed Value 2?
Old Operator 1	>= New Opt. 1	>= Changed Opt.	1? N Old Opt. 2	New Opt.	2 Changed Opt. 2
Old Condensed Impact	Hot	New C	condensed t	Extreme Heat	Changed Condensed Impact?
Old Full Impact	Temperatures > 120	F exceed the operating	limits and signific	cantly increases ur	reliability.
New Full Impact	Temperatures > 125	F exceed the operating	limits and increas	ses unreliability.	
			<del></del>		Changed Full Impact? Y
Old Source (1s	t Cavalry Division, 19	92);		300 - 100 -	
New Source/ Reason for Delete	TM43-0001-28 Page 7	-106, Jul 1987			
Comments					
Changed Source	? <b>Y</b>	Are There A	Any (2) Options?	N	Any Change to Record?
_	LJ		'		
ID # [34] 0		Ver Elize		Duta 4 # [22]	Dula 2 # Delete Bule 2 M
L .	omponent Name	VT FUZE		Rule 1 # 33	Rule 2 # Delete Rule? N
Old Color 1	New Color	1	New Param 1 ID	الــــــا	Changed Color? N
Old Color 1 Parameter 1 #	New Color  11 Old Param. 1 ID		New Param. 1 ID	Hail	Changed Color? N Changed Param. 1? N
Old Color 1 Parameter 1 # Parameter 2 #	New Color  11 Old Param. 1 ID Old Param. 2 ID	1 hail	New Param. 2 ID	Hail	Changed Color? N Changed Param. 1? N Changed Param. 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1	New Color  11 Old Param. 1 ID	1 hail New Value	New Param. 2 ID	Hail	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color  11 Old Param. 1 ID Old Param. 2 ID	hail New Value New Value	New Param. 2 ID	Hail Yes	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1	New Color  11 Old Param. 1 ID Old Param. 2 ID 1  New Opt. 1	hail  New Value  New Value  Changed Opt.	New Param. 2 ID e 1 e 2 1? N Old Opt. 2	Yes New Opt.	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2	New Color  11 Old Param. 1 ID Old Param. 2 ID	hail  New Value  New Value  Changed Opt.	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed	Hail Yes	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail	hail  New Value  New Value  Changed Opt.	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed	Yes New Opt.	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h	hail  New Value  Changed Opt.  New Clarged opt.  New Clarged opt.  New Clarged opt.  New Clarged opt.	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h	hail  New Value  New Value  Changed Opt.  New C	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h	hail  New Value  Changed Opt.  New Clarged opt.  New Clarged opt.  New Clarged opt.  New Clarged opt.	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h	hail  New Value New Value Changed Opt. New Climpact ail may cause the premail may cause the premail	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h	hail  New Value  New Value  Changed Opt.  New Climpac  ail may cause the premail may cau	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/ Reason for Delete	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h  Any occurrence of h	hail  New Value  New Value  Changed Opt.  New Climpac  ail may cause the premail may cau	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.
Old Color 1 Parameter 1 # Parameter 2 # Old Value 1 Old Value 2 Old Operator 1 Old Condensed Impact Old Full Impact New Full Impact Old Source (1s New Source/Reason for	New Color  11 Old Param. 1 ID Old Param. 2 ID  1  New Opt. 1  Hail  Any occurrence of h  Any occurrence of h	hail  New Value  New Value  Changed Opt.  New Climpac  ail may cause the premail may cau	New Param. 2 ID e 1 e 2 1? N Old Opt. 2 Condensed et	Yes  New Opt.  Hail  of variable time fuz	Changed Color?  Changed Param. 1? N  Changed Param. 2?  Changed Value 1? Y  Changed Value 2?  Changed Opt. 2  Changed  Condensed Impact?  N  Zes.

ID# 95 C	component Name		VT FUZE		Ru	ıle 1 # <b>54</b>	Rule	2#	Delete Rule	e? N
Old Color 1	New Color	1				<u> </u>	J	Chan	uged Color?	N
Parameter 1 #	14 Old Param. 1 ID	r	ain N	lew Param.	1 ID	Rain			anged Param.	17 N
Parameter 2 #	Old Param. 2 ID			lew Param. 2	2 ID				anged Param.	
Old Value 1	2		New Value 1		Mod	derate		Ch	anged Value 1	? <b>Y</b>
Old Value 2			New Value 2					Ch	anged Value 2	? 🗀
Old Operator 1	> New Opt. 1	> C	nanged Opt. 1?	N Old Op	ot. 2	New Op	t. 2		Changed Opt.	2 🗔
Old Condensed Impact	Precipita	tion `	New Cor Impact	ndensed		Heavy Rain			nged densed Impact	· Y
Old Full Impact	Rain > moderate inte	nsity may o	ause the prem	ature detor	nation of	variable time	fuzes.			
New Full Impact	Rain > moderate inte	nsity may o	ause the prem	nature detor	nation of	variable time	e fuzes.			
Old Source (1st	t Cavalry Division, 199	92):						Chang	jed Full Impact	? N
	TM43-0001-28, Page 7		7		-					
Comments										
Changed Source	? Y		Are There Any	(2) Options	? N		F	Any Chan	ge to Record?	Y
1D # 00 0									7	- (337)
1D # 96 Co	omponent Name New Color	1	E PHOSPHOR	ous	Rui	e 1 # 24	Rule 2	L.	Delete Rule	? N
	22 Old Param. 1 ID	tempe	rature N	ew Param. 1	ID	Temperat	UZO		ged Color? anged Param.	
Parameter 2 #	Old Param. 2 ID			ew Param. 2	<u> </u>	Tomperat			anged Param.	
Old Value 1	100		New Value 1			0 F			anged Value 1	
Old Value 2			New Value 2			-			anged Value 1	
Old Operator 1	>= New Opt. 1	>= Ch	anged Opt. 1?	N Old Opt	t. 2	New Opt	. 2		Changed Opt. 2	_
Old Condensed Impact	Hot		New Con-			Very Hot		Chan		
•	Temperatures >= 100	F make wh		us munition	s unsafe	e to fire.				
New Full Impact	Temperatures >= 110	F make wh	ite phosphoro	us munition	ns unsafe	e.				
OU 0								Chang	ed Full Impact	? Y
<u> </u>	Cavalry Division, 199								···-	<del></del>
New Source/ Reason for Delete	ГМ43-0001-28, Page 4-	·16, Jui 198	<i>(</i>							
Comments	THE ARCHITECTURE TO A CONTROL OF THE STATE O									
L Changed Source?	Y		Are There Any	(2) Options?	? N		A	ny Chan	ge to Record?	Υ

ID# 97 C	omponent Name		WINTERIZATION	I KIT	Rule 1 # 11	Rule 2 #	Delete Rule? N
Old Color 1	New Cold	or 1				<del></del>	Changed Color? N
Parameter 1 #	22 Old Param	. 1 ID te	emperature	New Param. 1 IE	tempera	iture	Changed Param. 1? N
Parameter 2 #	Old Param	Old Param. 2 ID New P		New Param. 2 IC	)	· · · · · · · · · · · · · · · · · · ·	Changed Param. 2?
Old Value 1	0	0 New Value 1		0 F		Changed Value 1? N	
Old Value 2			New Value	2			Changed Value 2?
Old Operator 1	<= New O	ot. 1 <	Changed Opt. 1	? Y Old Opt. 2	New O	pt. 2	Changed Opt. 2
Old Condensed Impact		Cold	New Co Impact	ondensed	Very Cold		Changed Condensed Impact?
Old Full Impact	Temperatures	< 0 F without	a winterization k	it make it difficu	It for the wheeled	l vehicle to	start.
New Full Impact	Temperatures special servici		a winterization k	it make it difficu	It for the wheeled	l vehicle to	start and require
						(	Changed Full Impact? Y
Old Source (1s	t Cavalry Division	on, 1992);					
New Source/ Reason for Delete	TM 9-2320-280-	10, Para 3-4, (	Oct 86				
Comments							
Changed Source	? Y		Are There A	ny (2) Options?	N	Any	Change to Record? Y